



FLOATING POINT
SYSTEMS, INC.

PROPRIETARY
INFORMATION

ARRAY PROCESSOR SCHEMATICS

CUSTOMER NAME L.E. Med. System w/o #9754
Schematics + Power Supplies
SERIAL # 820234404
NAME OF HOST COMPUTER Nova/E

NOTICE

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This document contains schematics, topologies, power supplies, wiring diagrams, etc.

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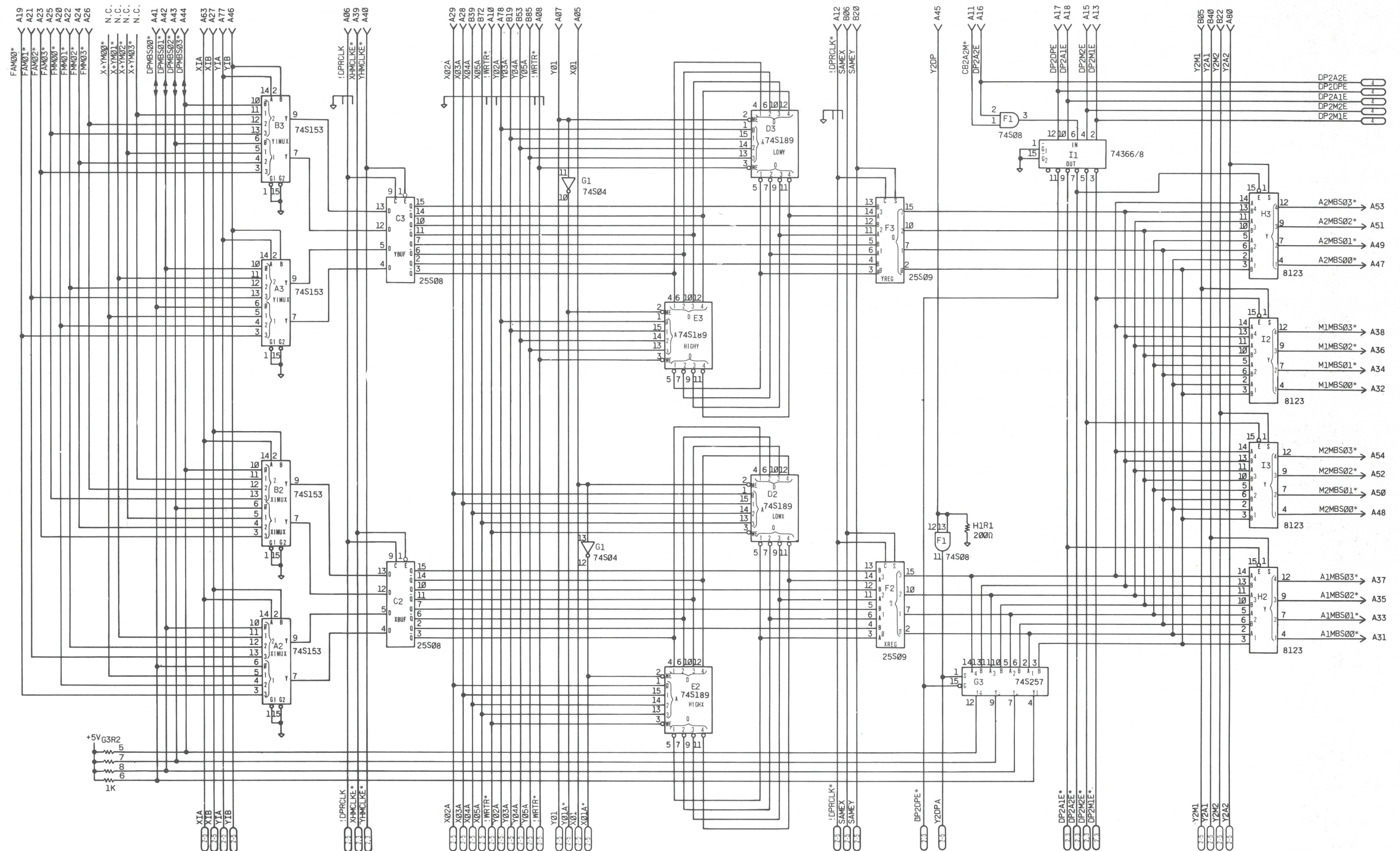
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REVISIONS				
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01	EN #049	INITIAL LEVEL 1 RELEASE		9/18/79
A	ECO 79604	LEVEL 3 RELEASE		10-10-79

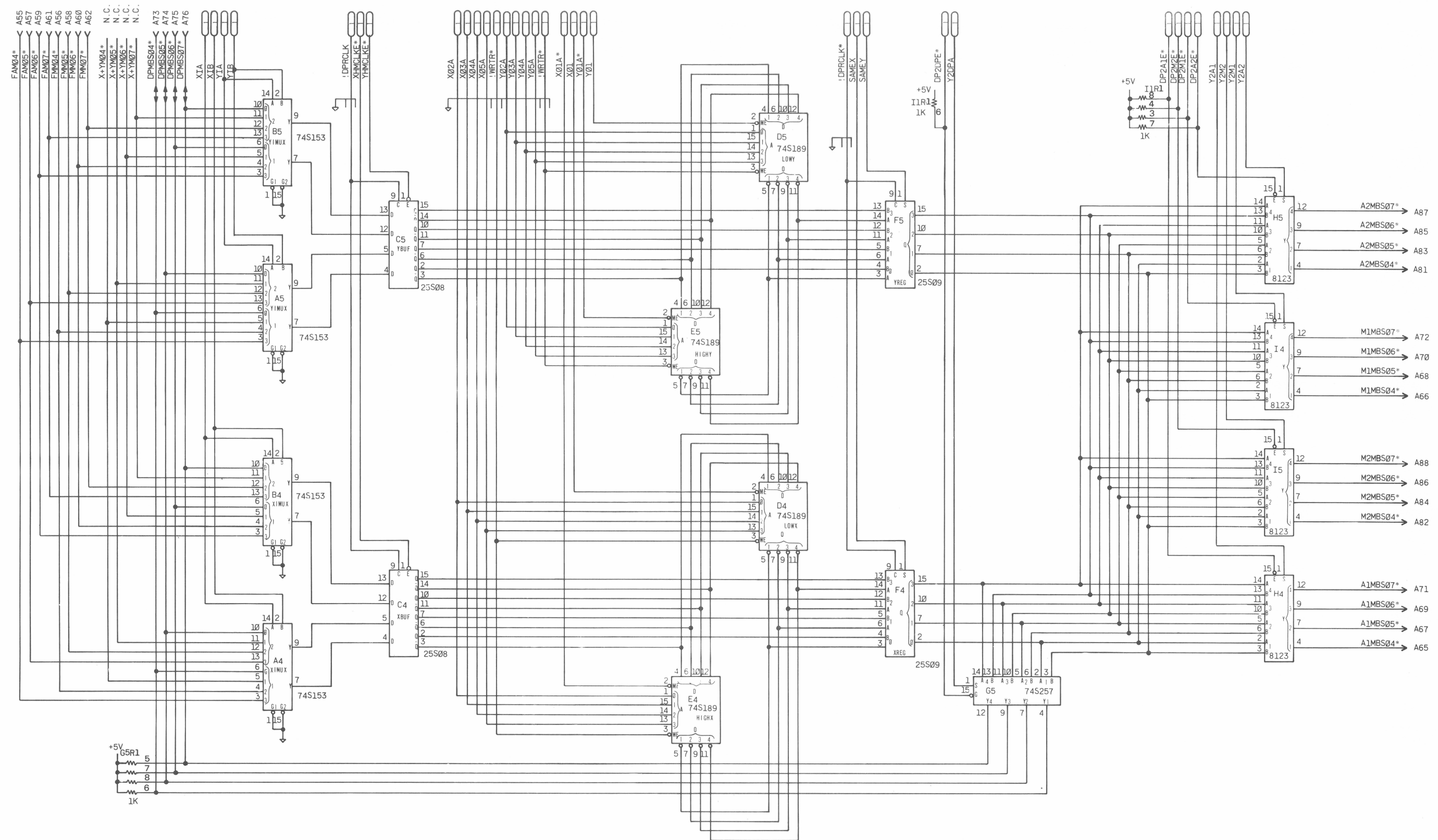
APC/12-6-79	MB 11-30-79
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ENG. <i>John C. Young</i> 12-6-79 DRN. CHK. <i>John C. Young</i> 4/13/79 PROD. RELEASE M.L. DEC. TOL. <i>John C. Young</i> 12-5-79	TITLE SCHEMATIC, ECB, 200 B, DATA PAD RIGHT DWG. NO. 512-3200-002	FLOATING POINT SYSTEMS, INC. PO BOX 23489 PORTLAND OR 97223
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REV. 5
PAGE 1 OF 5

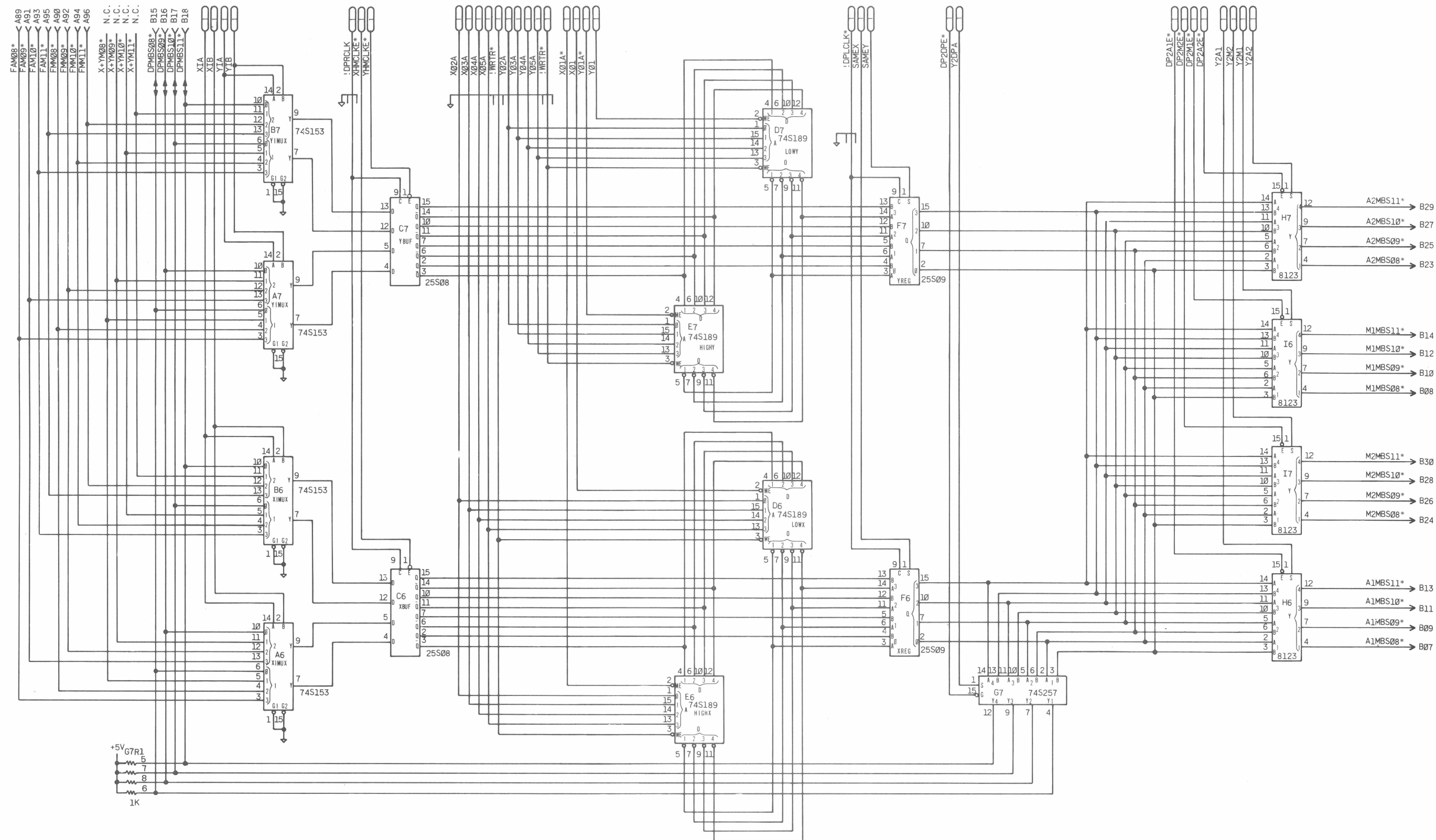


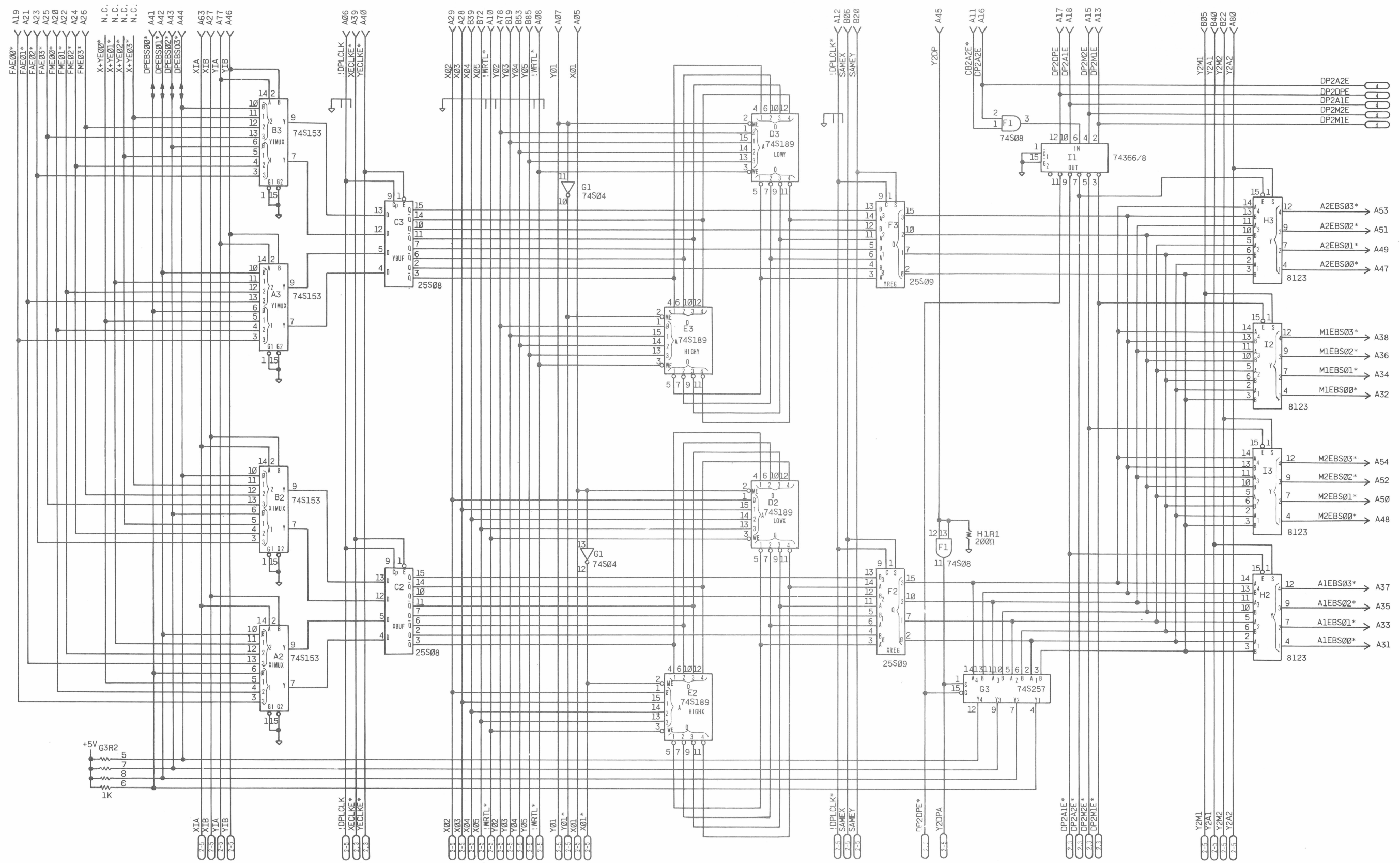
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DRN JOHN C. YOUNG 2-28-78	SCHEMATIC, ECB, 200B, DATA PAD RIGHT	
CHK.		
PROD. RELEASE		
DEC. TEL.	DWG. NO. 512-3200-002	PAGE 2 OF 5 REV. A

MANTISSA BITS 04-07





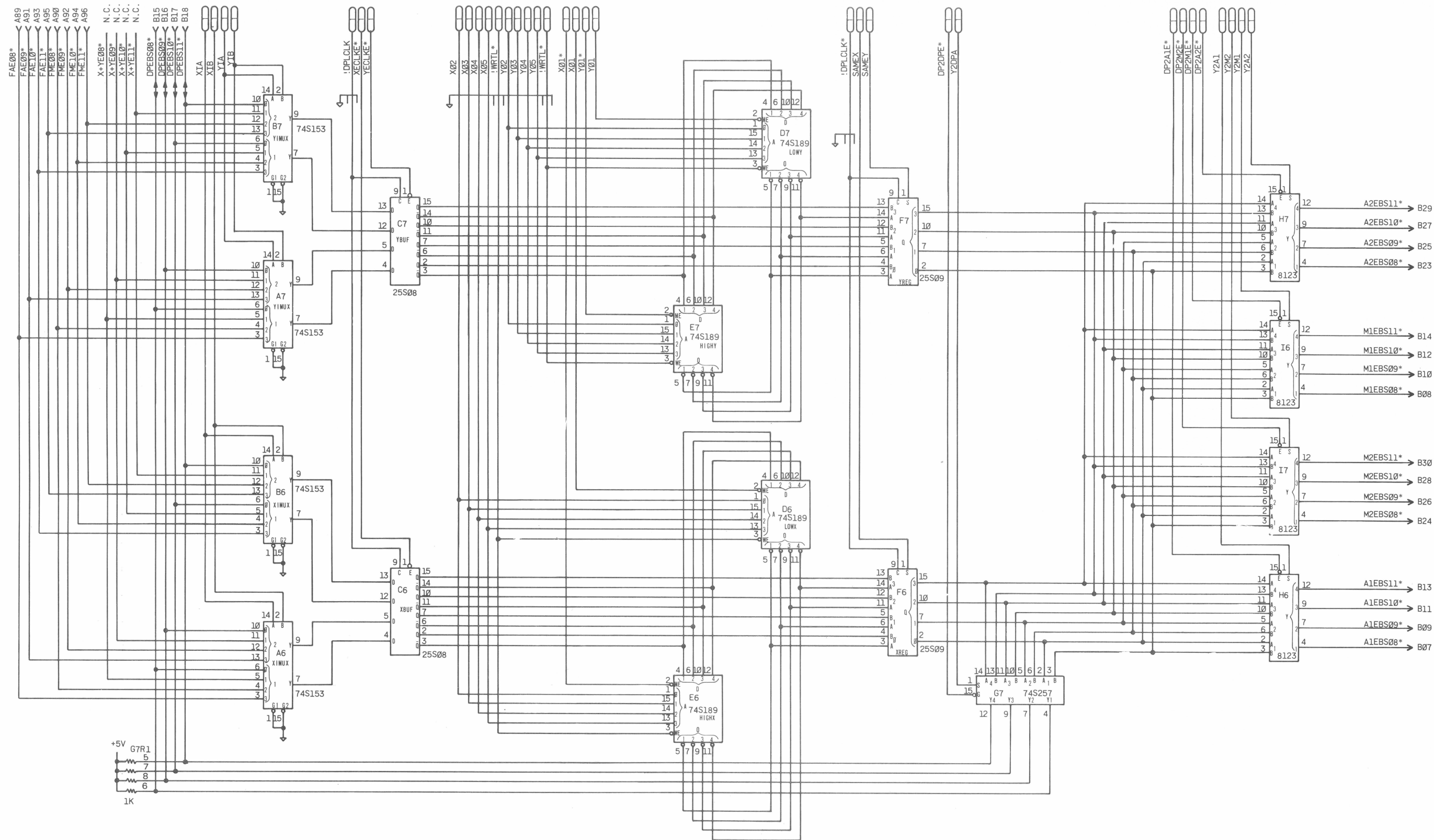
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01	EN #049	INITIAL LEVEL 1 RELEASE		10-10-79	P. 10/10/79
A	ECO 79604	LEVEL 3 RELEASE		12-6-79	MB 11-30-79

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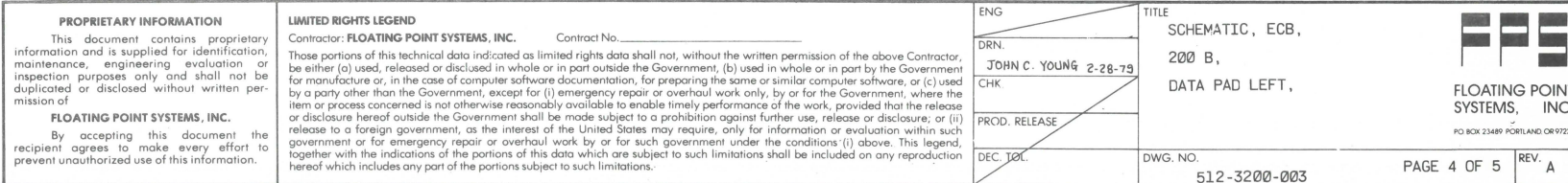
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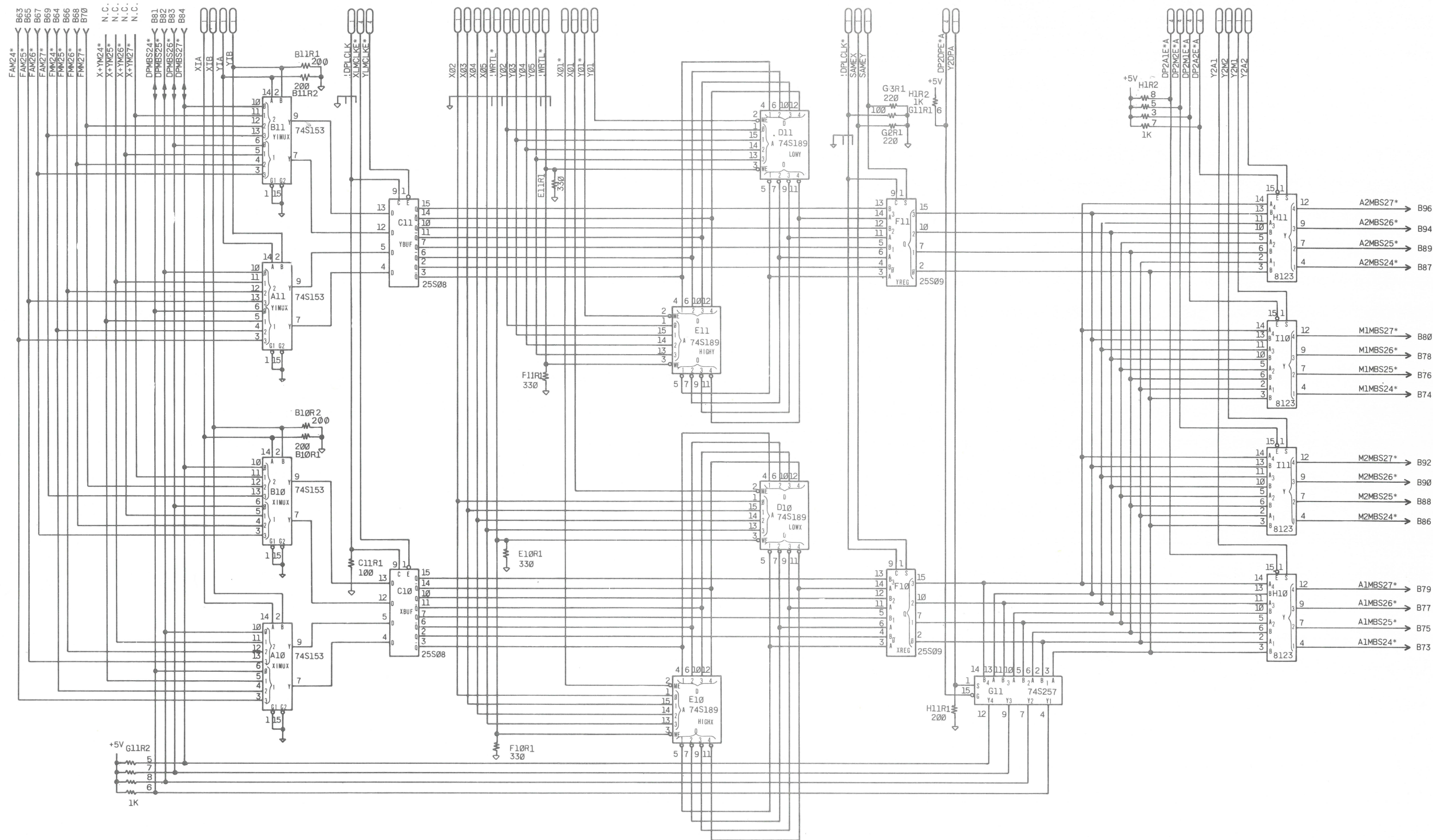
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TITLE
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200 B,
DATA PAD LEFT,
DWG. NO. 512-3200-003
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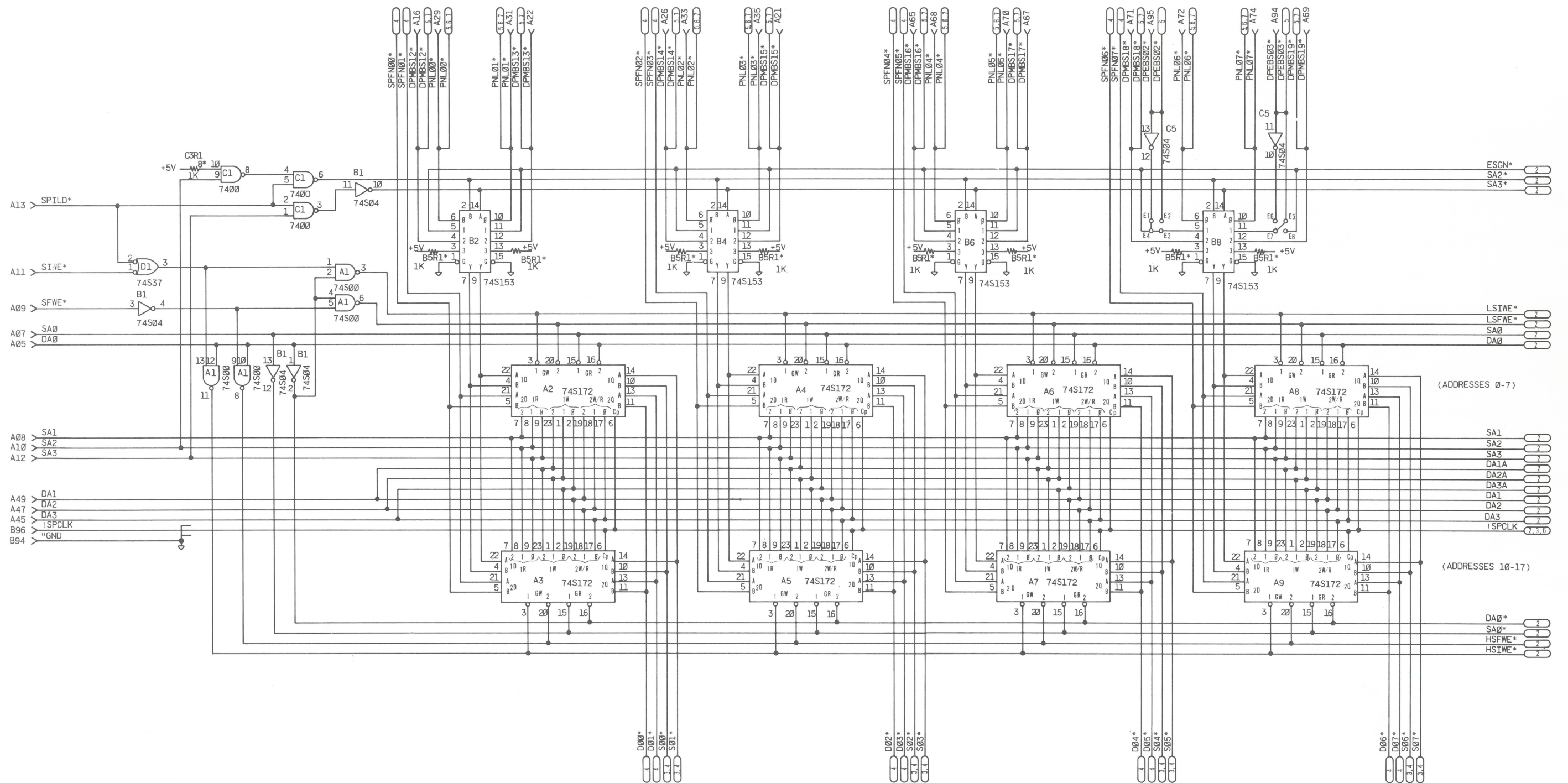




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DRN.					
CHK.					
PROD. RELEASE					
DEC. 10X.		DWG. NO.	512-3200-003	PAGE 5 OF 5	REV. A



REVISIONS					
REV	AUTH	DESCRIPTION	ZONE	APVD/DATE	CHK/DATE
A	ECO 79405	LEVEL 3 RELEASE		SRG 10-2-77	10-9-77
B	ECO 81231	74172 TO 74S172		RH 7/4/78	7-15-81

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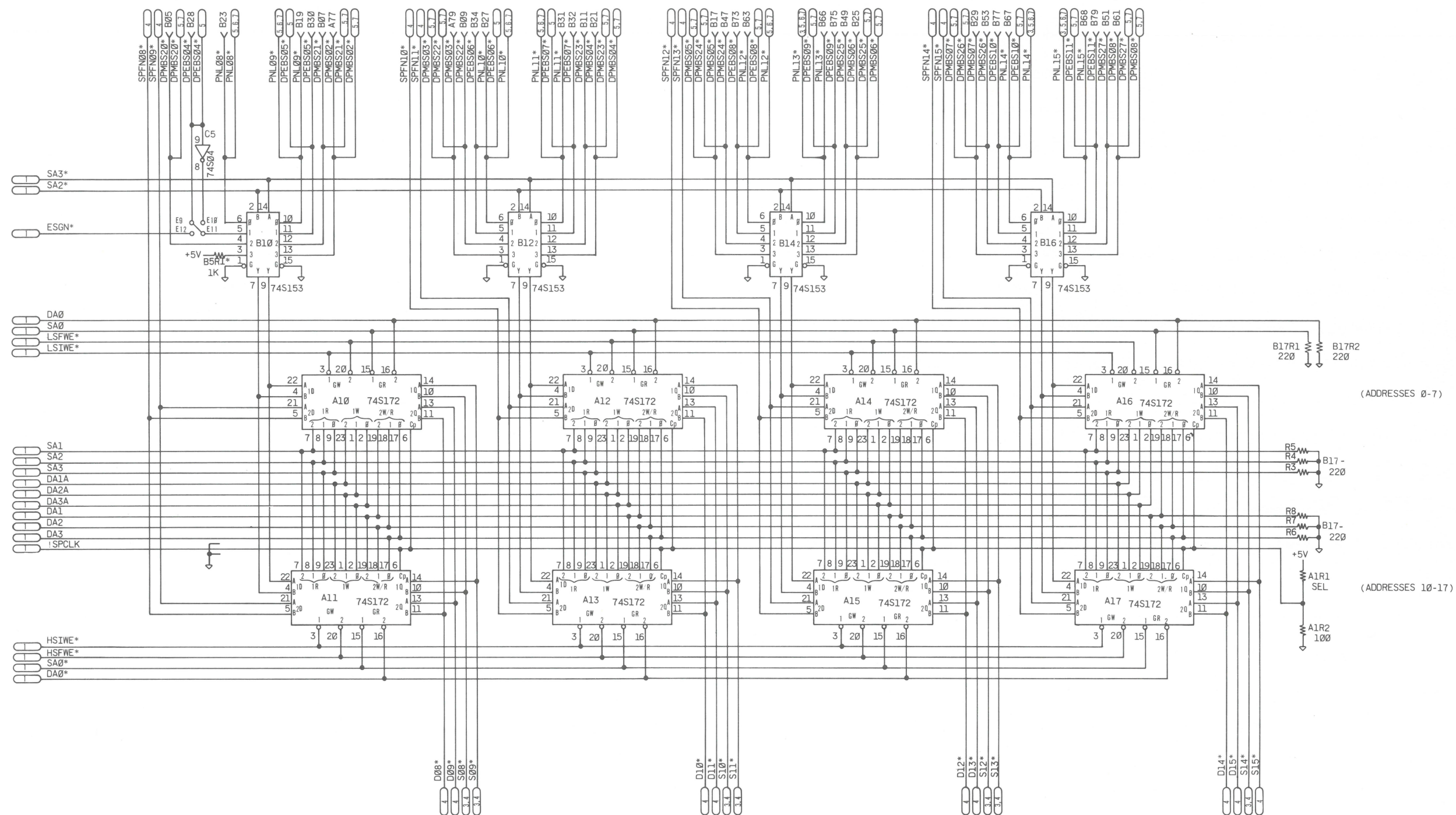
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ENG. *10-2-77*
DRM *John J. Miller*
CHK *R. P. Pecher* 12-28-77
PROD. RELEASE M.L.
DEC. TOC *Spec. Rev. 10-2-77*

TITLE
SCHEMATIC, ECB,
201-D,
SCRATCH PAD
(16K RAM INTERLEAVE STRAPPING)

FLOATING POINT SYSTEMS, INC.
P.O. BOX 22489 PORTLAND, OR 97223

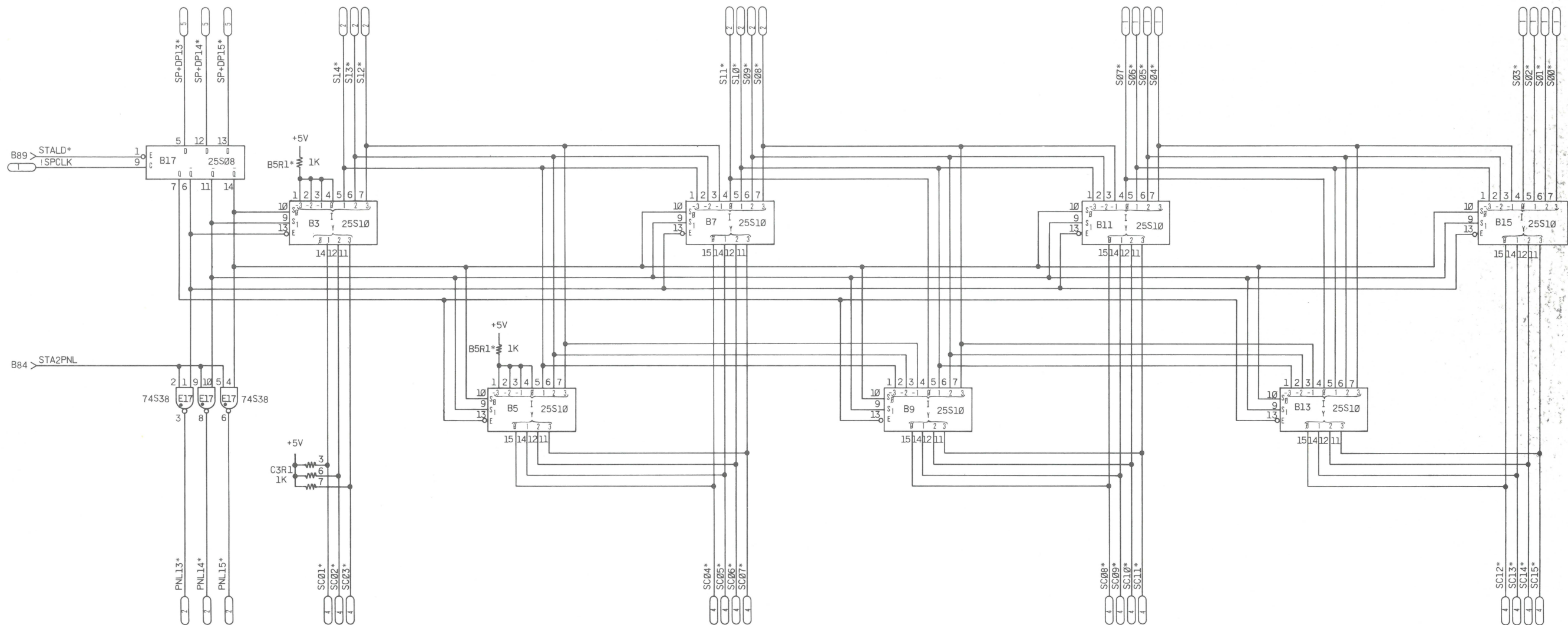


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CHK. <i>10-27-78</i>	
PROD. RELEASE	
DEC. 100.	
DWG. NO. 512-3201-005	PAGE 2 OF 7 REV. B

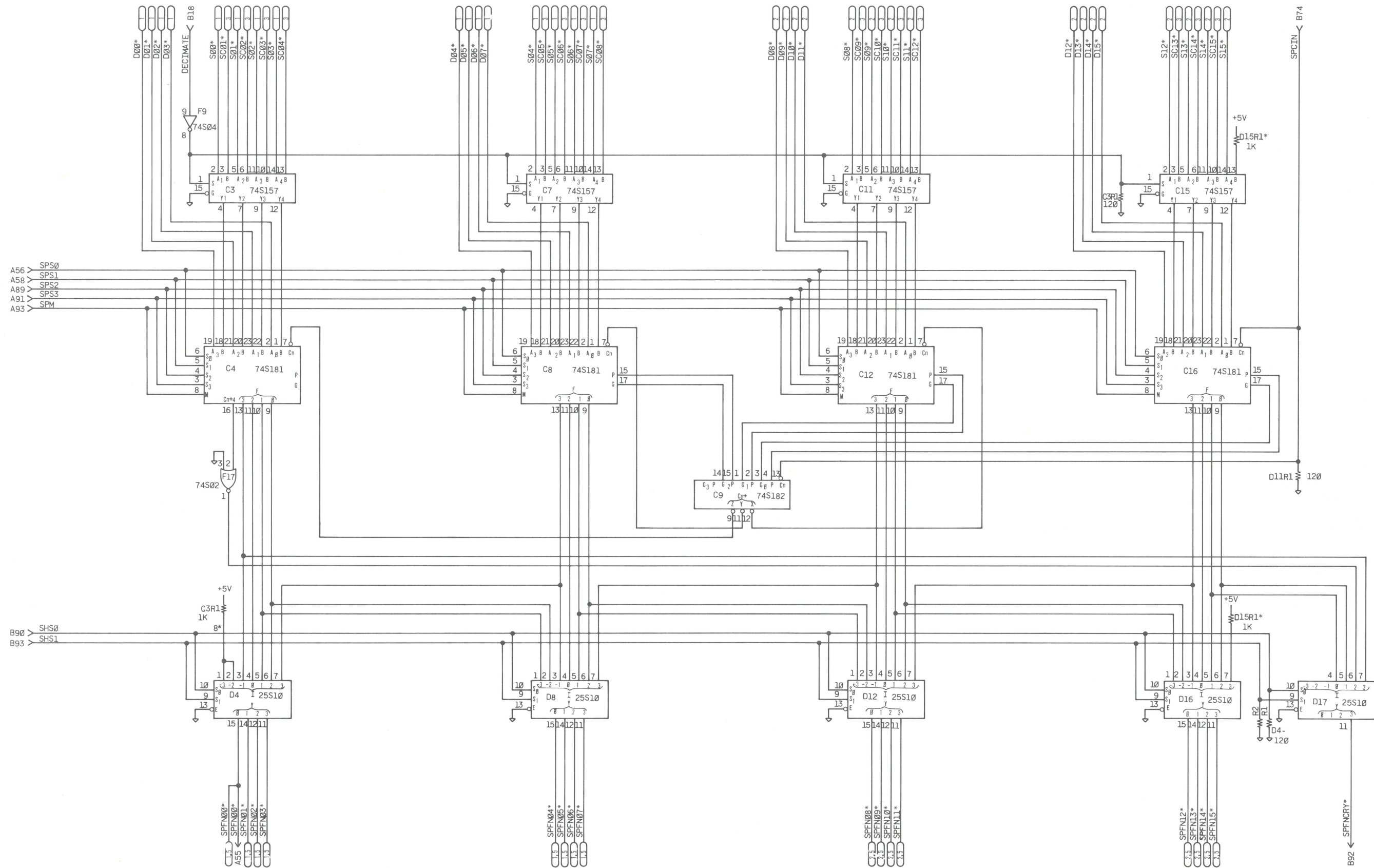




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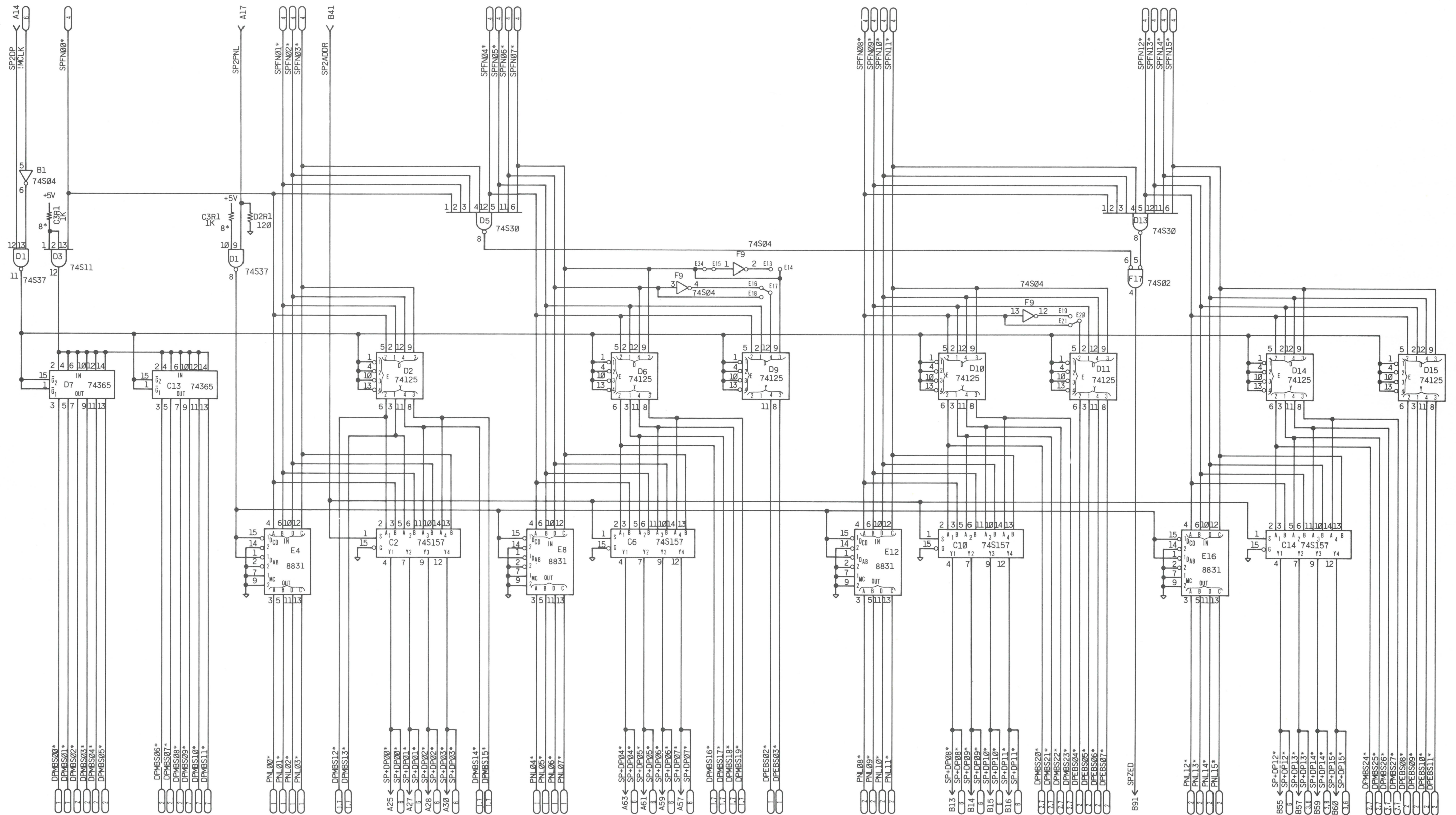
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DRN. <i>John Heller</i>	SCHEMATIC, ECB, 201-D,	
CHK. <i>10-27-78</i>	SCRATCH PAD,	
PROD. RELEASE	(16K RAM INTERLEAVE STRAPPING)	
DEC. 101.		
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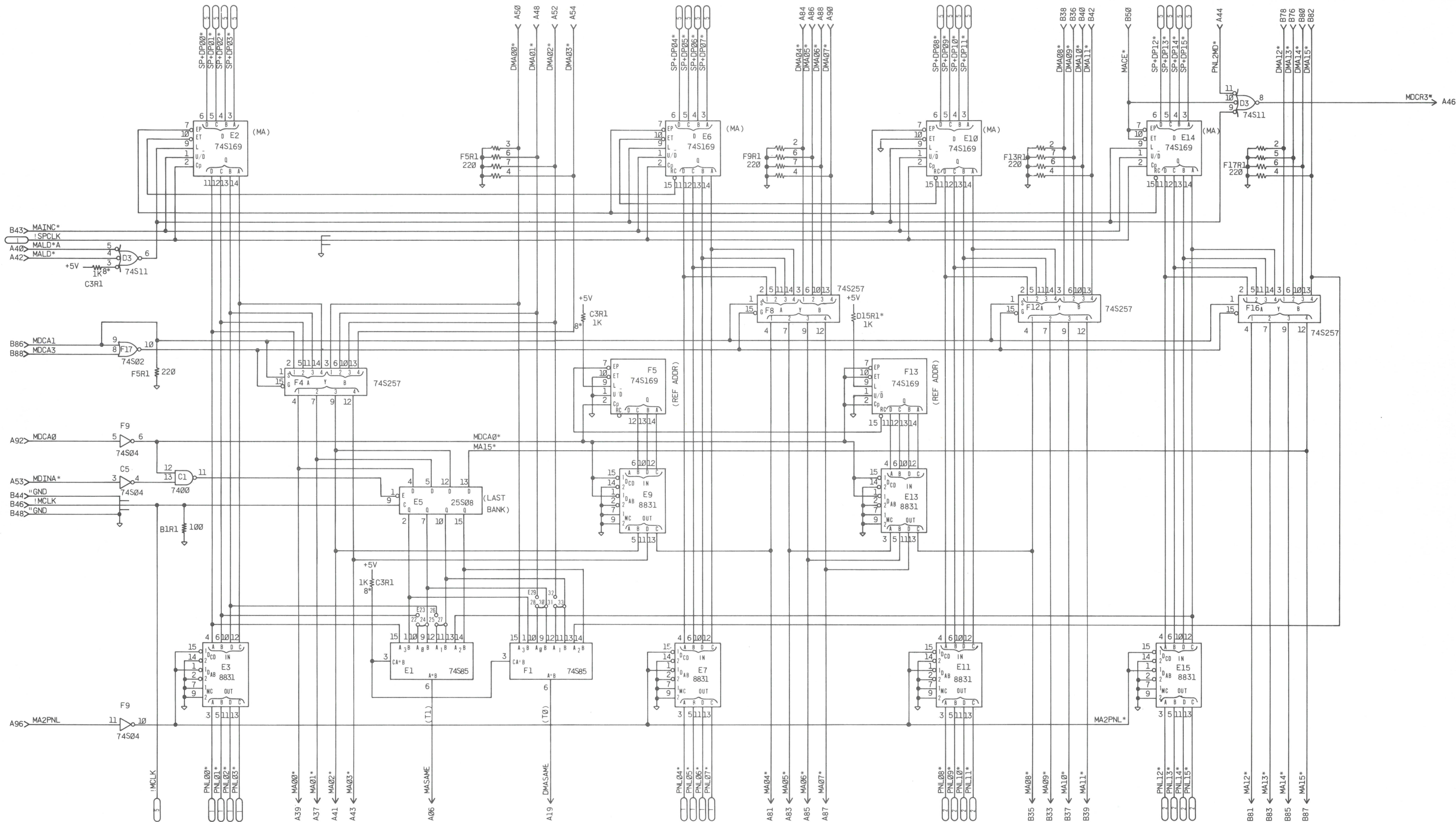
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CHK. <i>10-2-78</i>	FLOATING POINT SYSTEMS, INC.														
PROD. RELEASE	FD-808 (2-80) (REV. 10-7-73)														
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DRN. *Jack Heller*
CHK. *REV 10-27-78*
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MEMORY ADDRESS REGISTER

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SCHEMATIC, ECB,
201-D,
SCRATCH PAD,
(16K RAM INTERLEAVE STRAPPING)

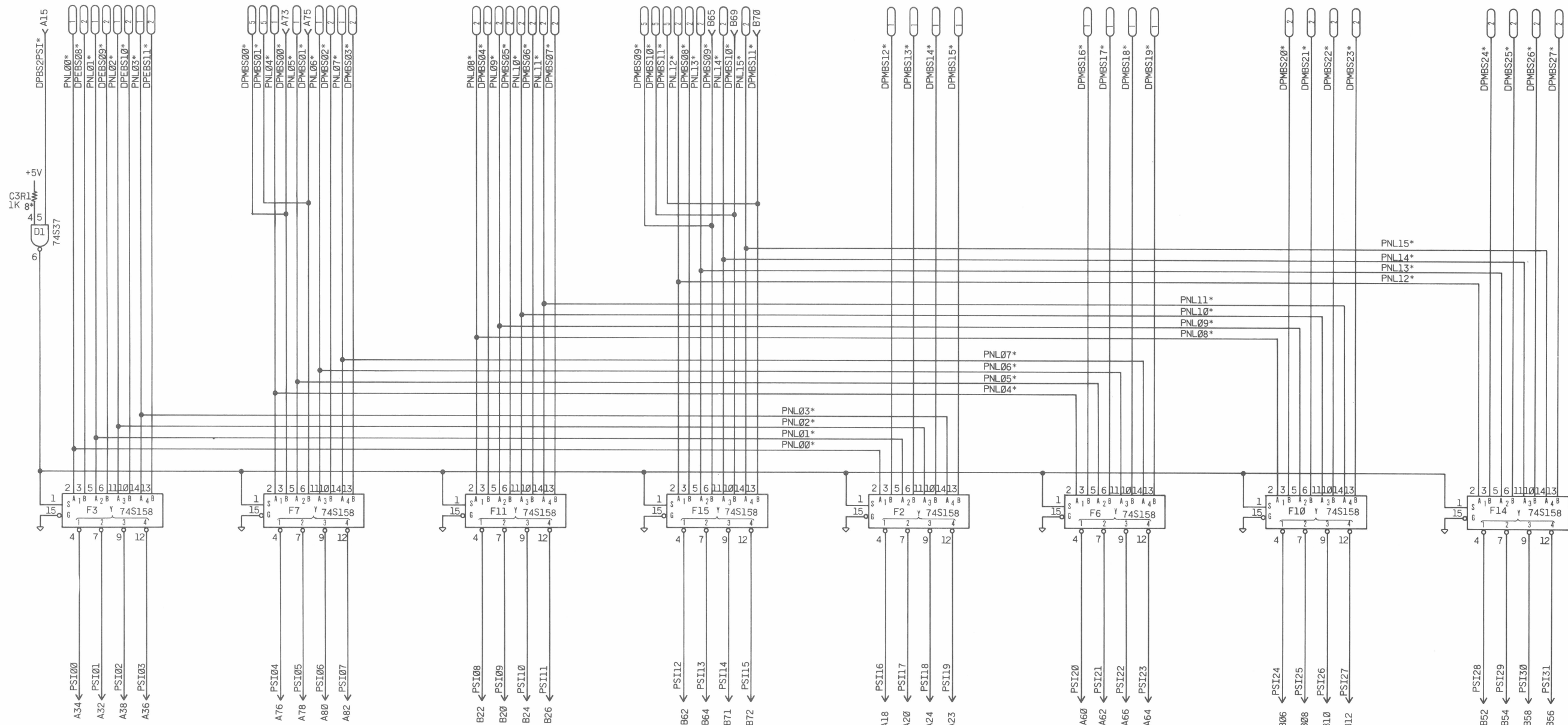
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DWG. NO. 512-3201-005

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REV. B

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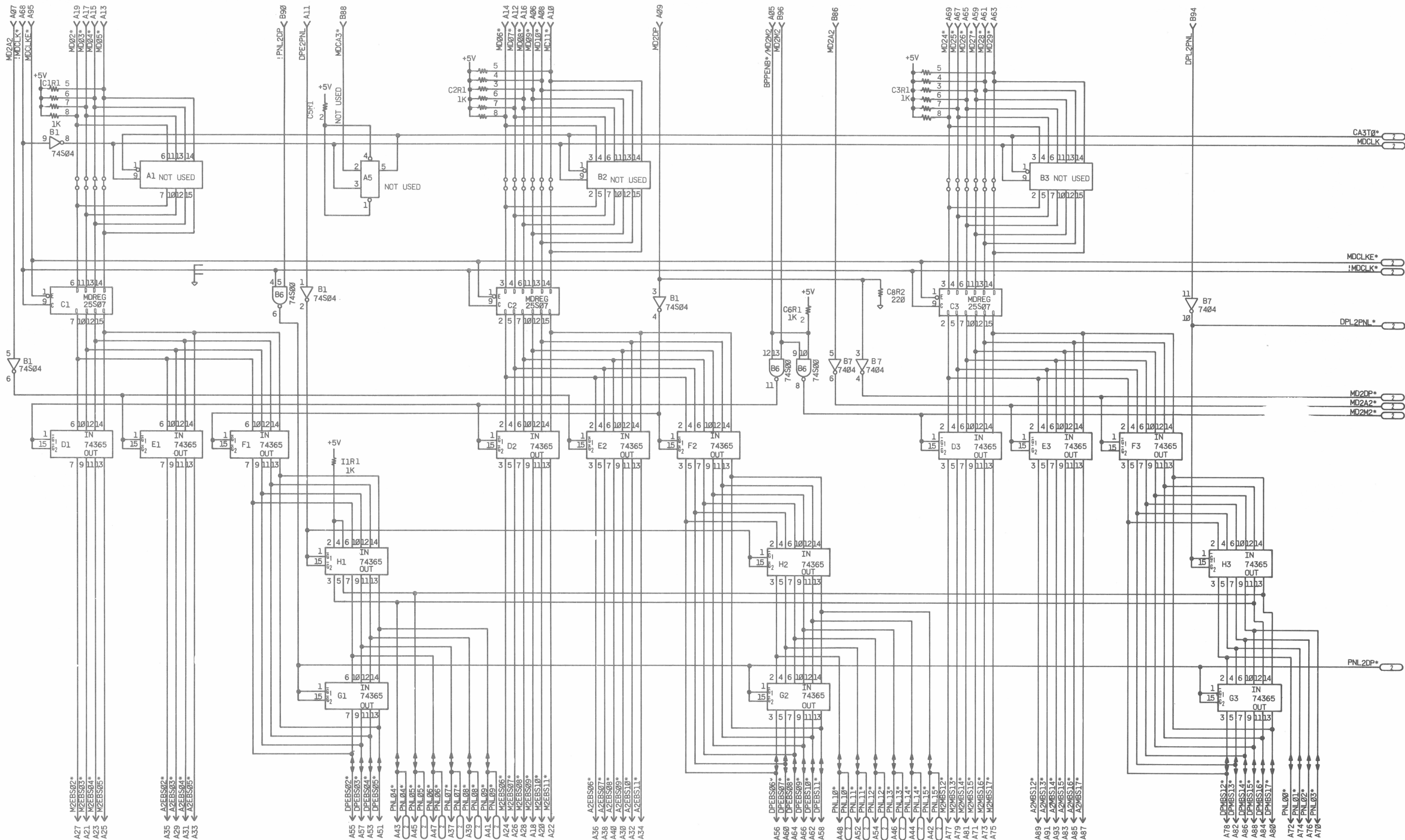


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PROGRAM SOURCE INPUT
TITLE
SCHEMATIC, ECB,
201-D,
SCRATCH PAD,
(16K RAM INTERLEAVE STRAPPING)
DWG. NO. 512-3201-005
PAGE 7 OF 7
REV. B
F3
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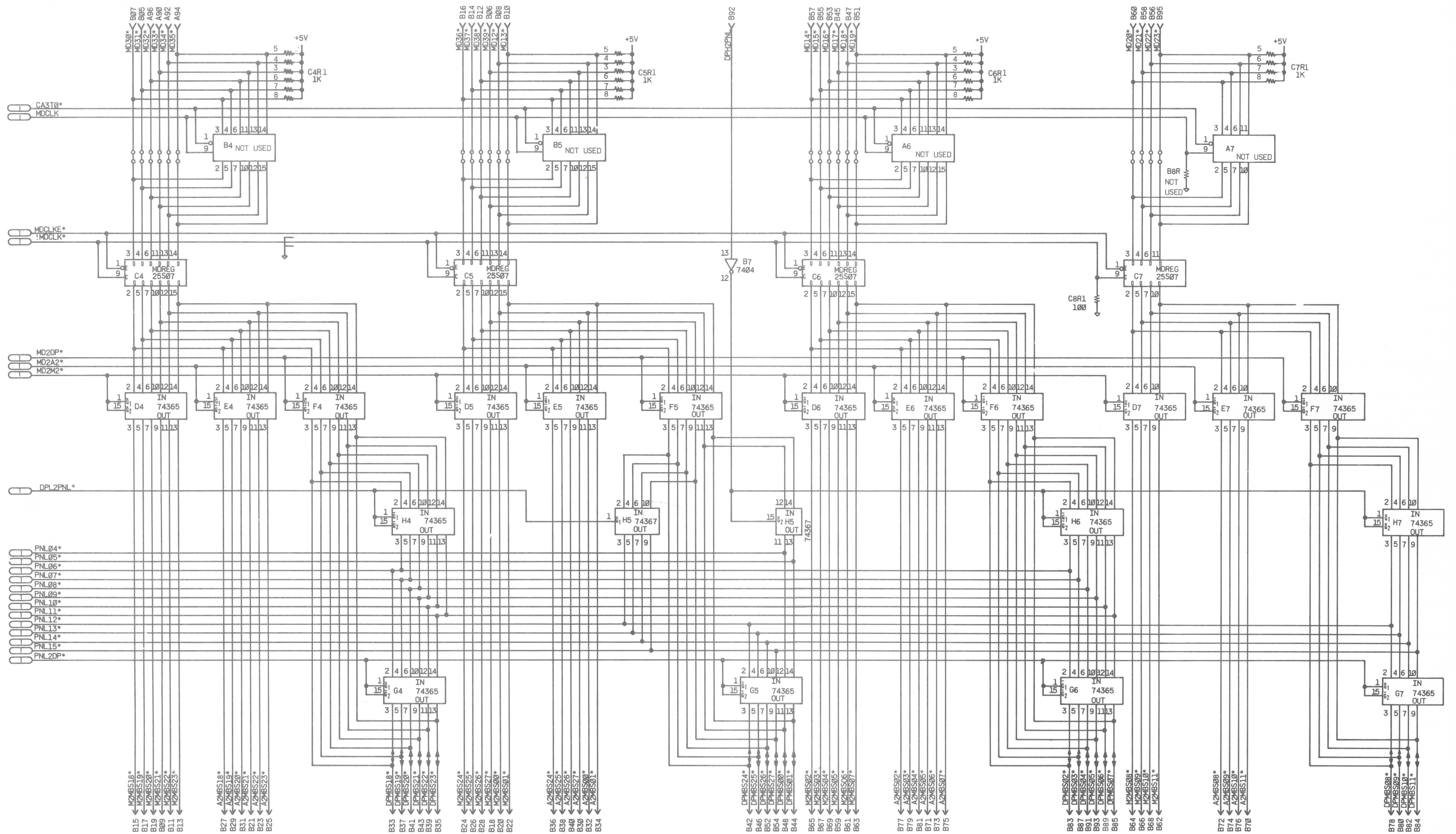
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REV	AUTH	DESCRIPTION	ZONE	APVD/DATE	CHK/DATE
A	ECO 79405	LEVEL 3 RELEASE		DRG 10-2-79	DRG 9/20

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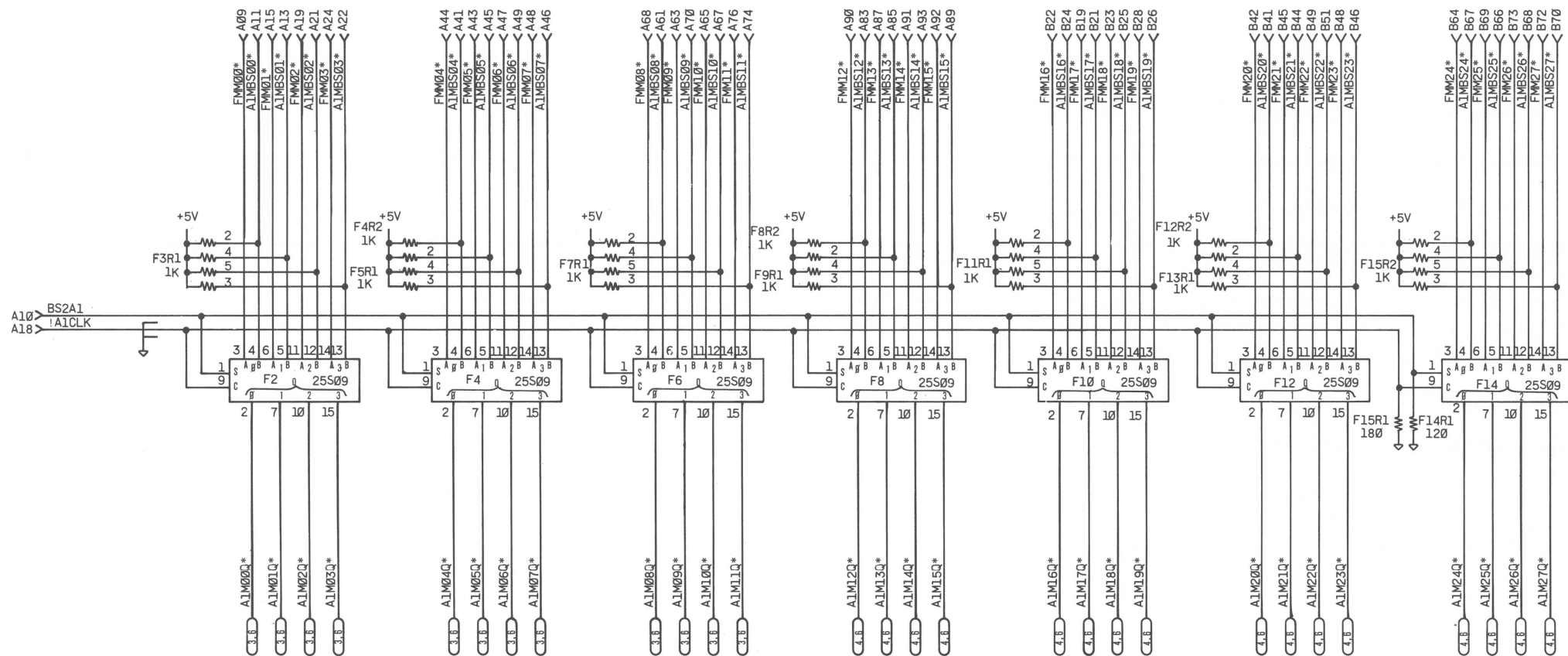




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ENG.	TITLE	 FLOATING POINT SYSTEMS, INC. PO BOX 23489 PORTLAND OR 97223
DRN. <i>Frank Miller</i>	SCHEMATIC, ECB,	
CHK.	202D,	
PROD. RELEASE	MAIN DATA REGISTER (STD)	
DEC. 101.		
DWG. NO.	512-3202-003	PAGE 2 OF 2



REVISIONS					
REV	AUTH	DESCRIPTION	ZONE	APVD/DATE	CHK/DATE
A	ECO 79383	LEVEL 3 RELEASE		SRG 9-8-79	Deb 9/12/79
B	ECO 80180	SELA2A ENHANCEMENT		Riz/6-9-80	JuB 9/9/80

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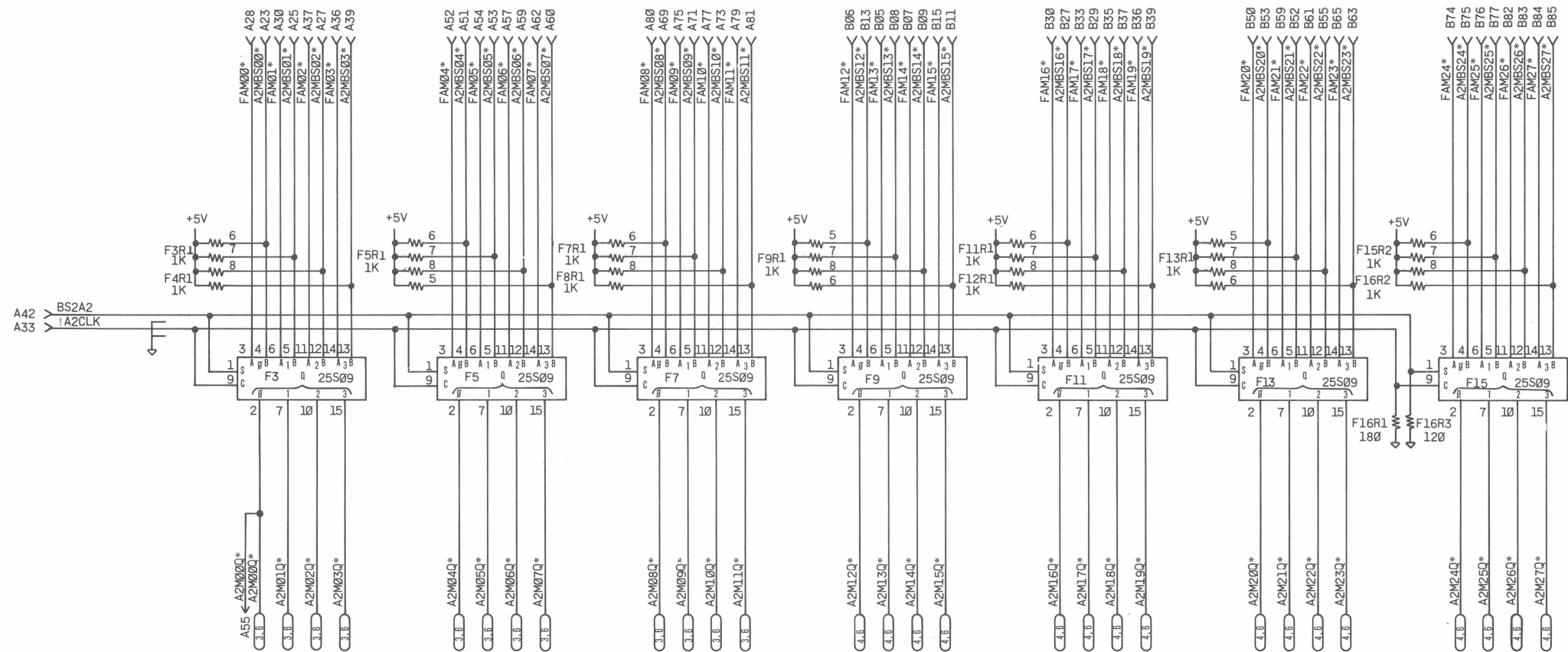
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ENG. *W. J. Smith* 8-15-79
DRN. *John Miller*
CHK. *W. J. Smith*
PROD. RELEASE *W. J. Smith* M.L.
DEC. TOL. *W. J. Smith*

TITLE
SCHEMATIC, ECB,
203-C,
FLOATING ADDER 1
DWG. NO. 512-3203-001

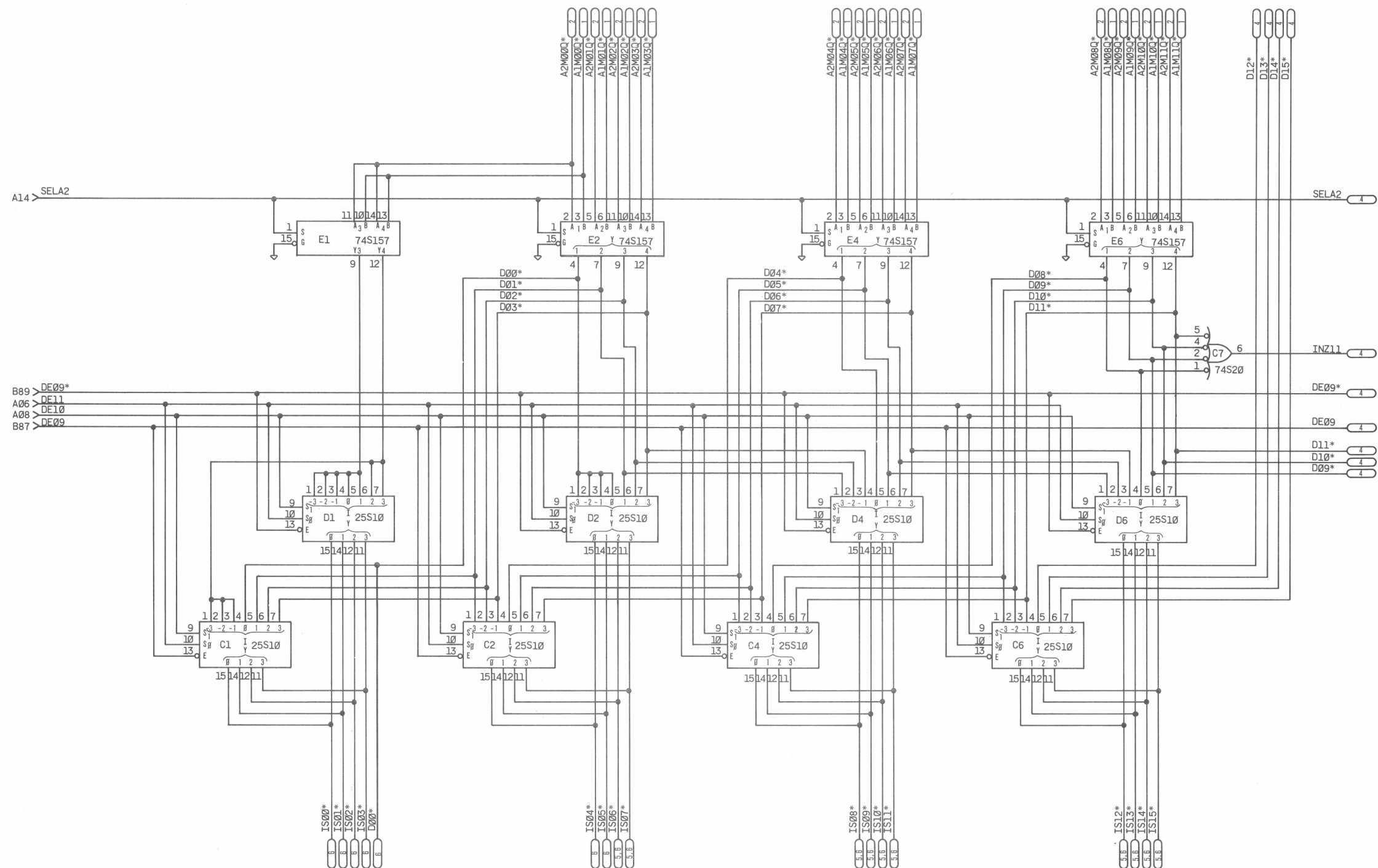
PAGE 1 OF 6
REV. B
FLOATING POINT SYSTEMS, INC.
PG BOX 23489 PORTLAND OR 97223

A1 MANTISSA REGISTER



A2 MANTISSA REGISTER

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SCALER INPUT SELECT
EXPONENT ALIGNMENT SHIFTER

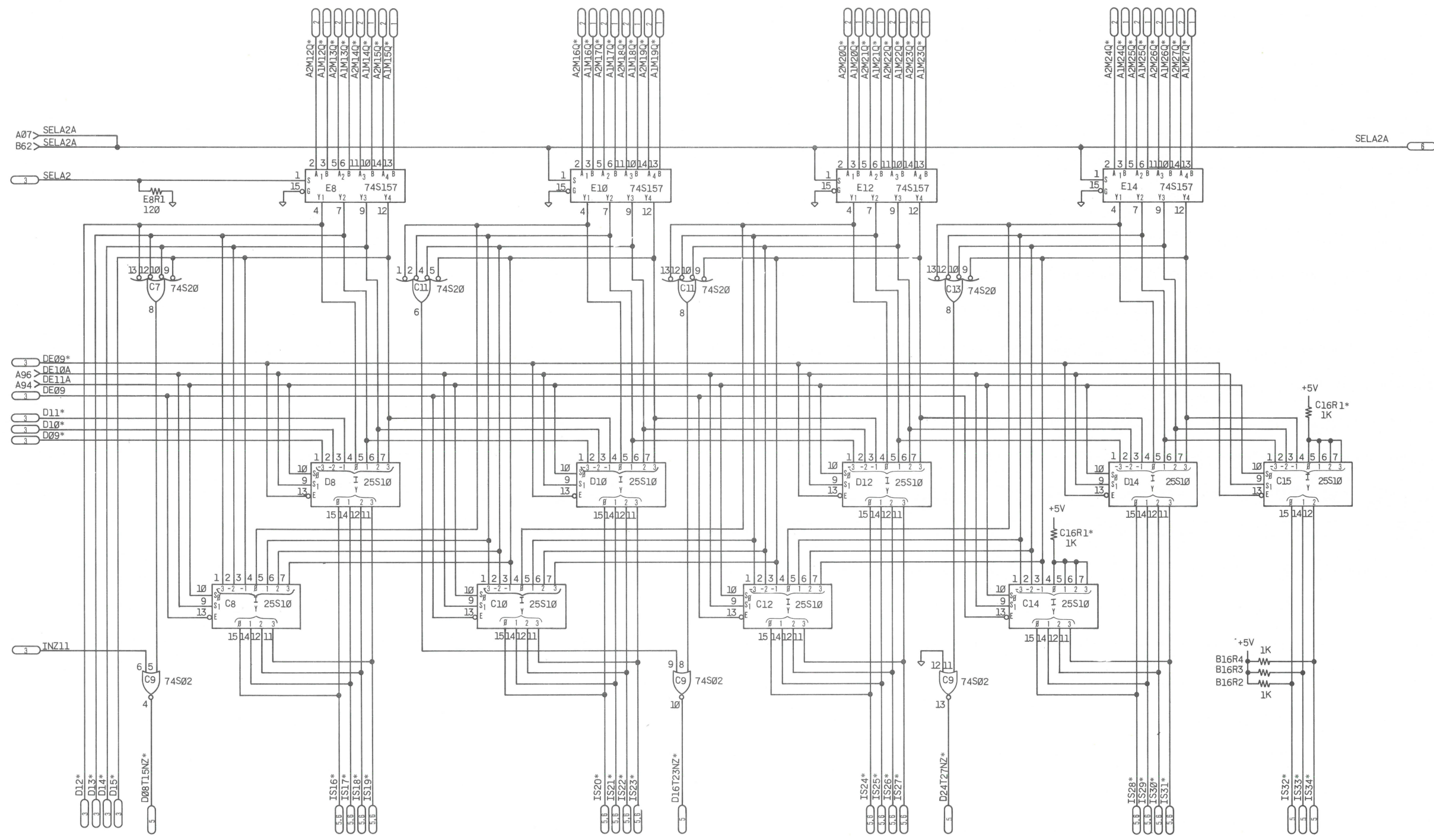
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ENG.
DRN. *John J. H.*
CHK.
PROD. RELEASE
DEC. TOL.

TITLE
SCHEMATIC, ECB,
203-C,
FLOATING ADDER 1
DWG. NO. 512-3203-001

FPS
FLOATING POINT SYSTEMS, INC.
PO BOX 23489 PORTLAND, OR 97223
PAGE 3 OF 6
REV. B

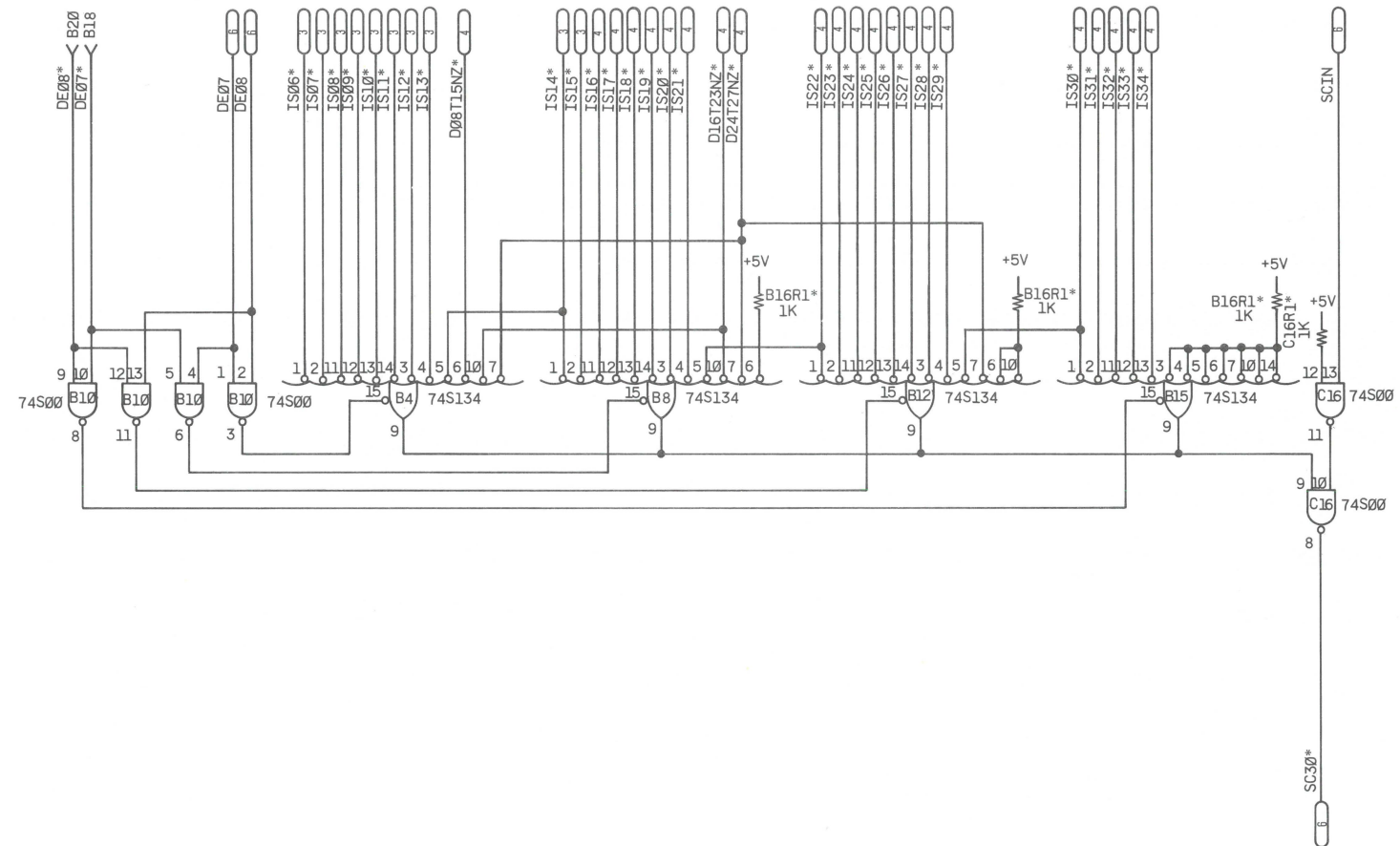


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EXPONENT ALIGNMENT SHIFTER

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ENG.		TITLE SCHEMATIC, ECB, 203-C, FLOATING ADDER 1												
DRN.														
CHK.														
PROD. RELEASE														
DEC. 101.														
DWG. NO. 512-3203-001		PAGE 4 OF 6		REV. B										



PO BOX 23489 PORTLAND, OR 97223



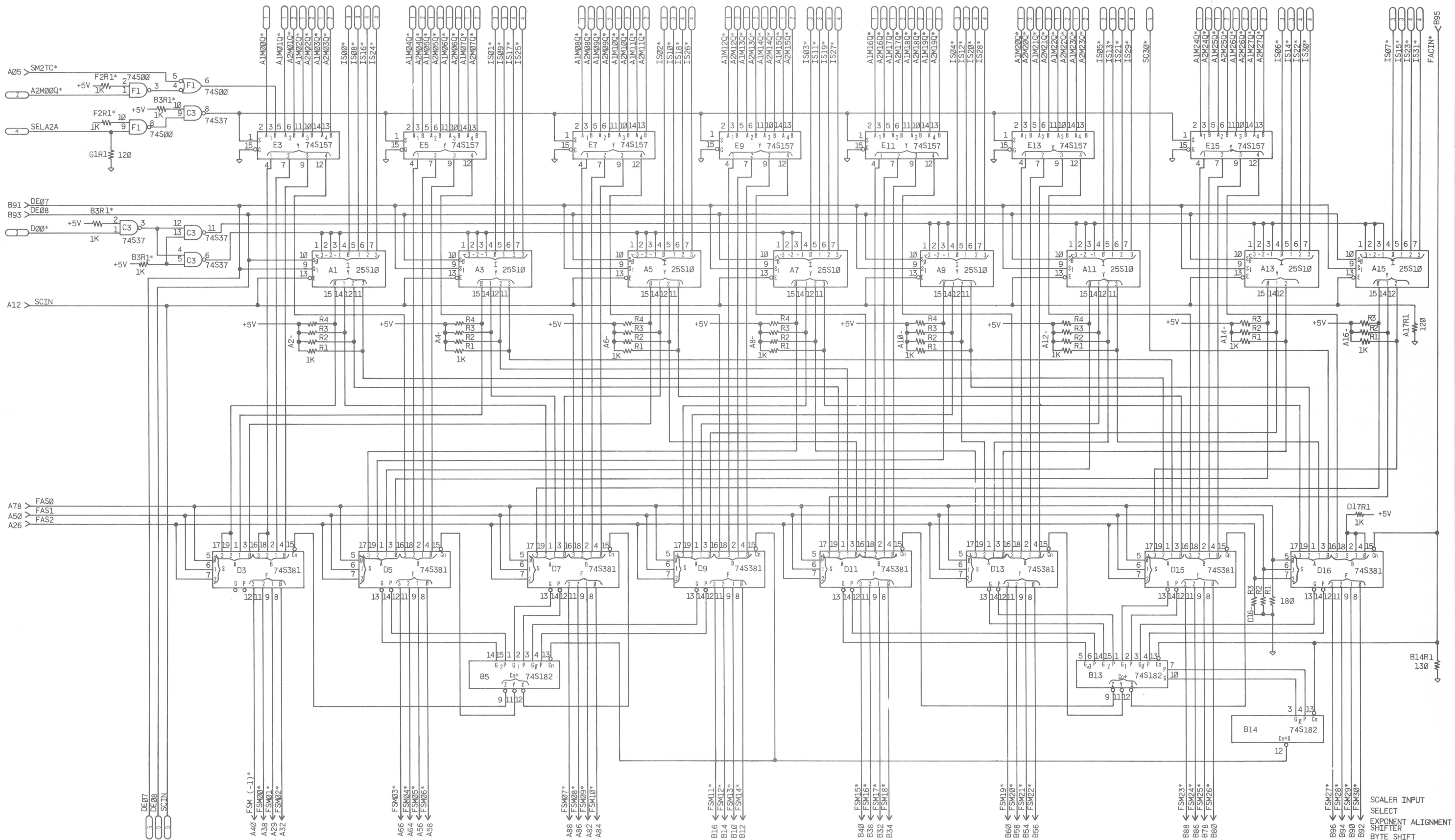
BIT BUCKET

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FLOATING POINT
SYSTEMS, INC.

FD BOX 23489 PORTLAND OR 97223



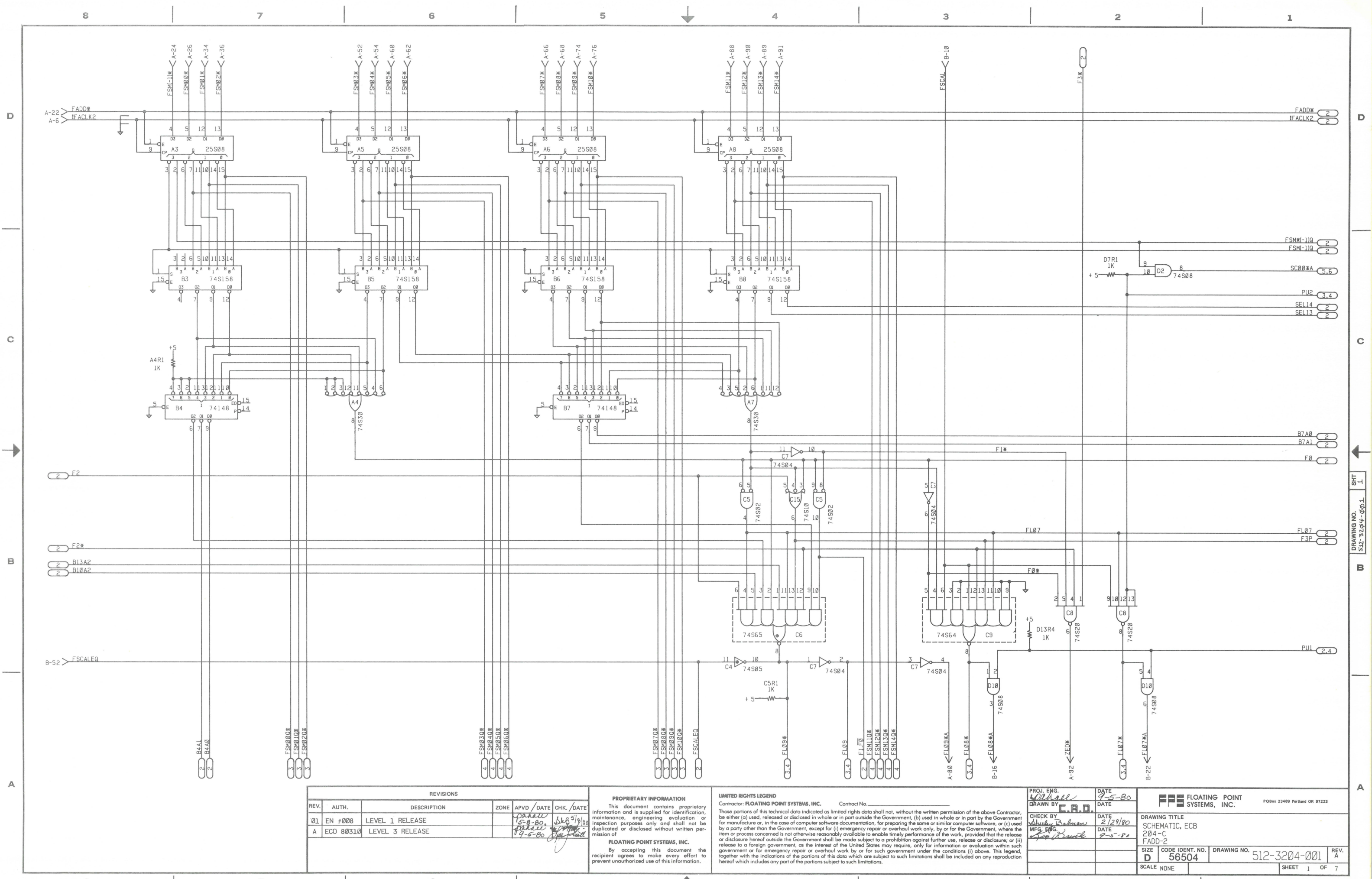
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ENG.	TITLE
DRN.	SCHEMATIC, ECB,
CHK.	203-C,
PROD. RELEASE	FLOATING ADDER 1
DEC. 10.	DWG. NO. 512-3203-001
	REV. B

SCALER INPUT
SELECT
EXPONENT ALIGNMENT
SHIFTER
BYTE SHIFT



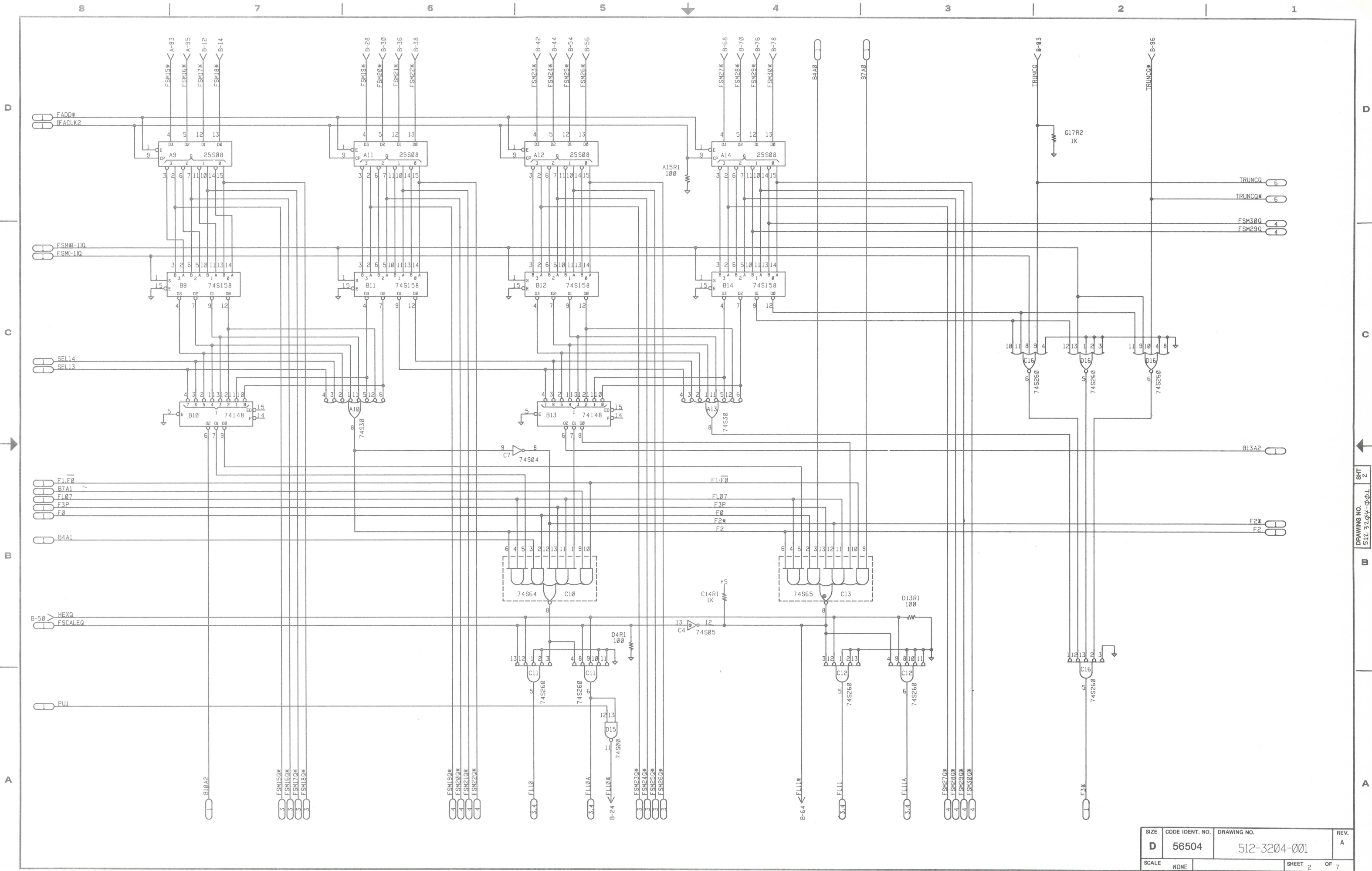


REVISIONS					
REV.	AUTH.	DESCRIPTION	ZONE	APVD / DATE	CHK. / DATE
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A	ECO 80310	LEVEL 3 RELEASE		19-6-80	19-6-80

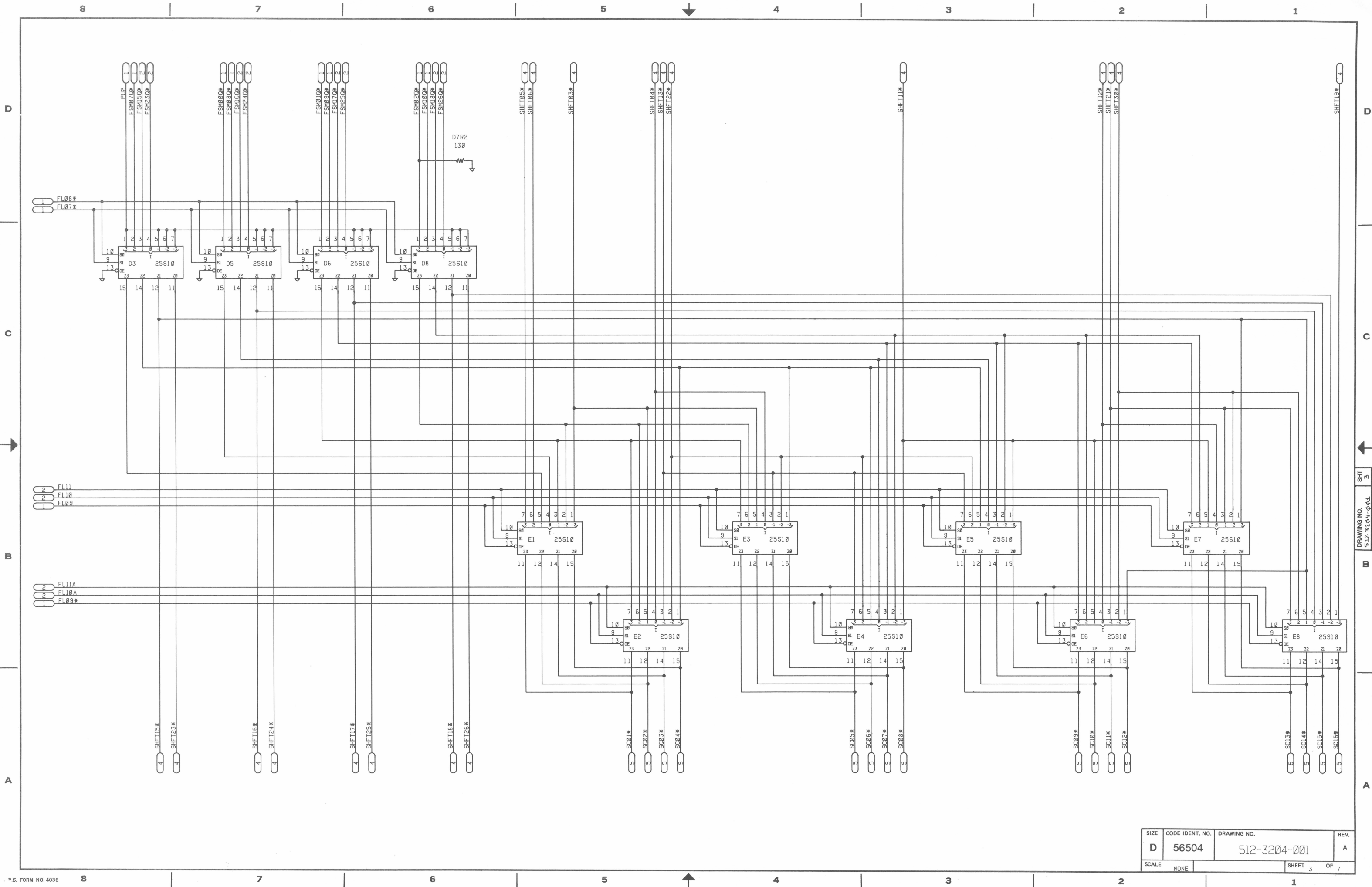
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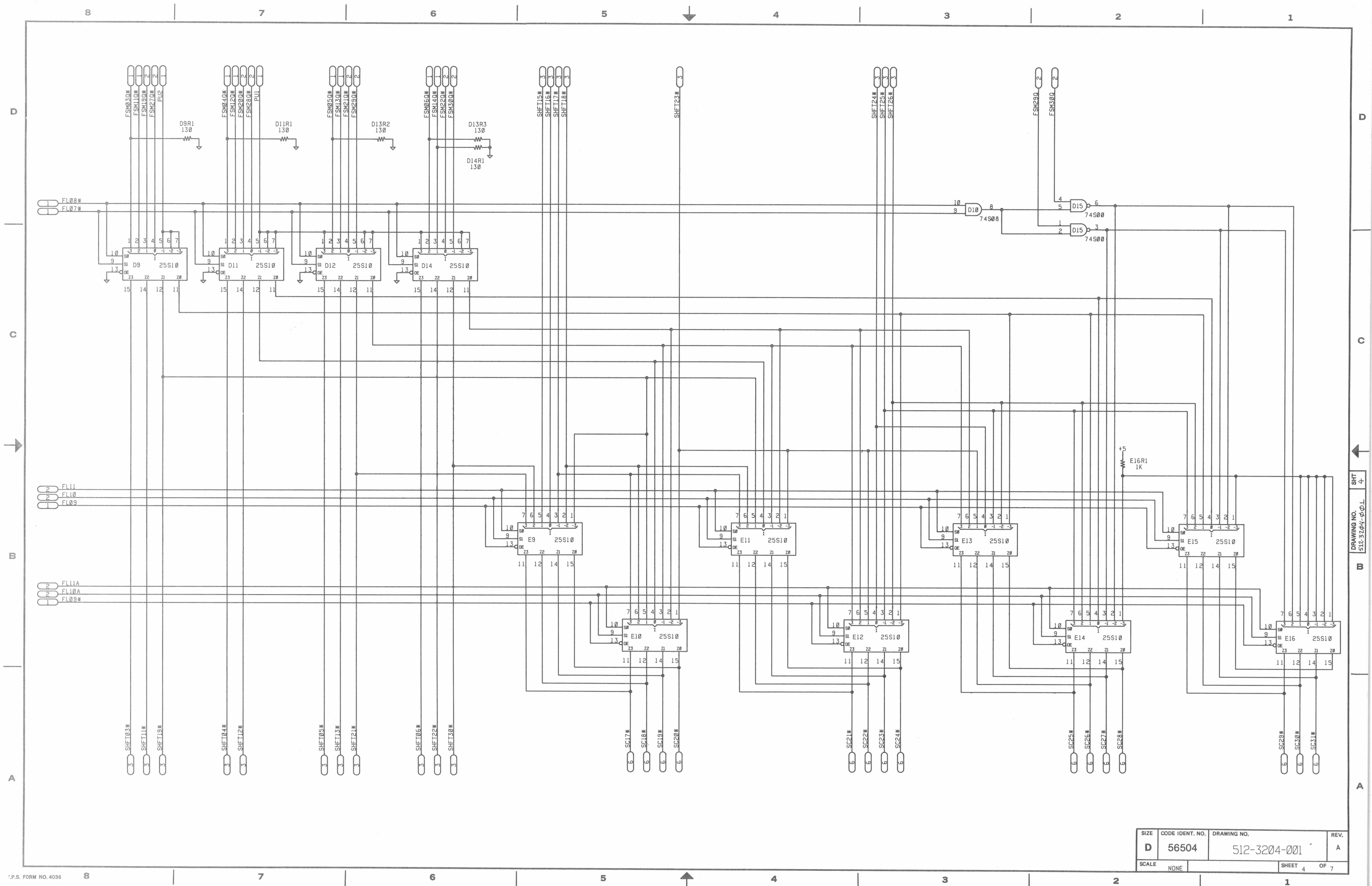
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DRAWN BY <i>C.R.D.</i>	DATE 2/29/80	DRAWING TITLE SCHEMATIC, ECB	
CHECK BY <i>Shulky Rabman</i>	DATE 2-5-80	204-C FADD-2	
MFG. ENG. <i>Ken Smith</i>		SIZE D	CODE IDENT. NO. 56504
		DRAWING NO. 512-3204-001	REV. A
		SCALE NONE	SHEET 1 OF 7

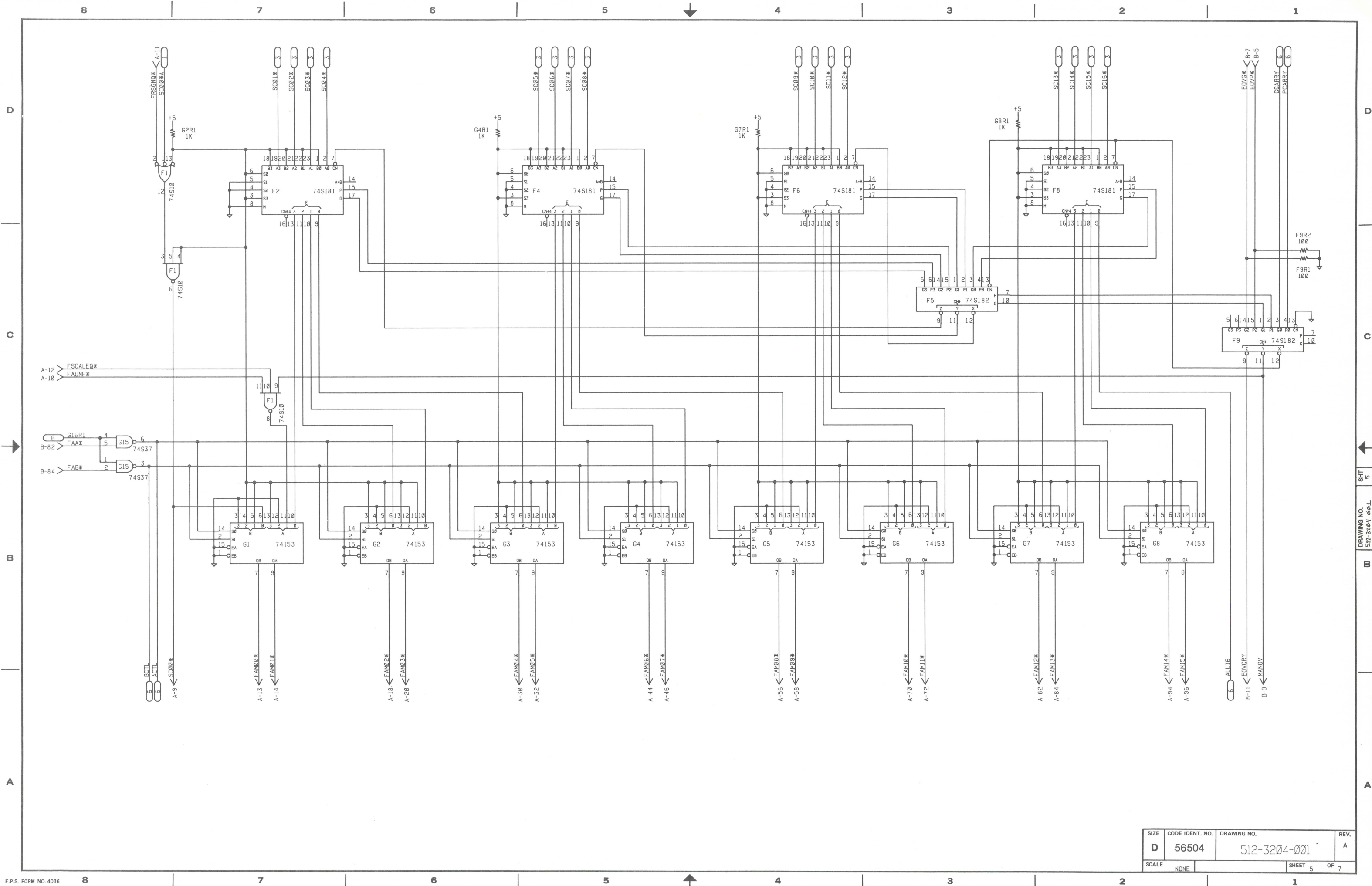


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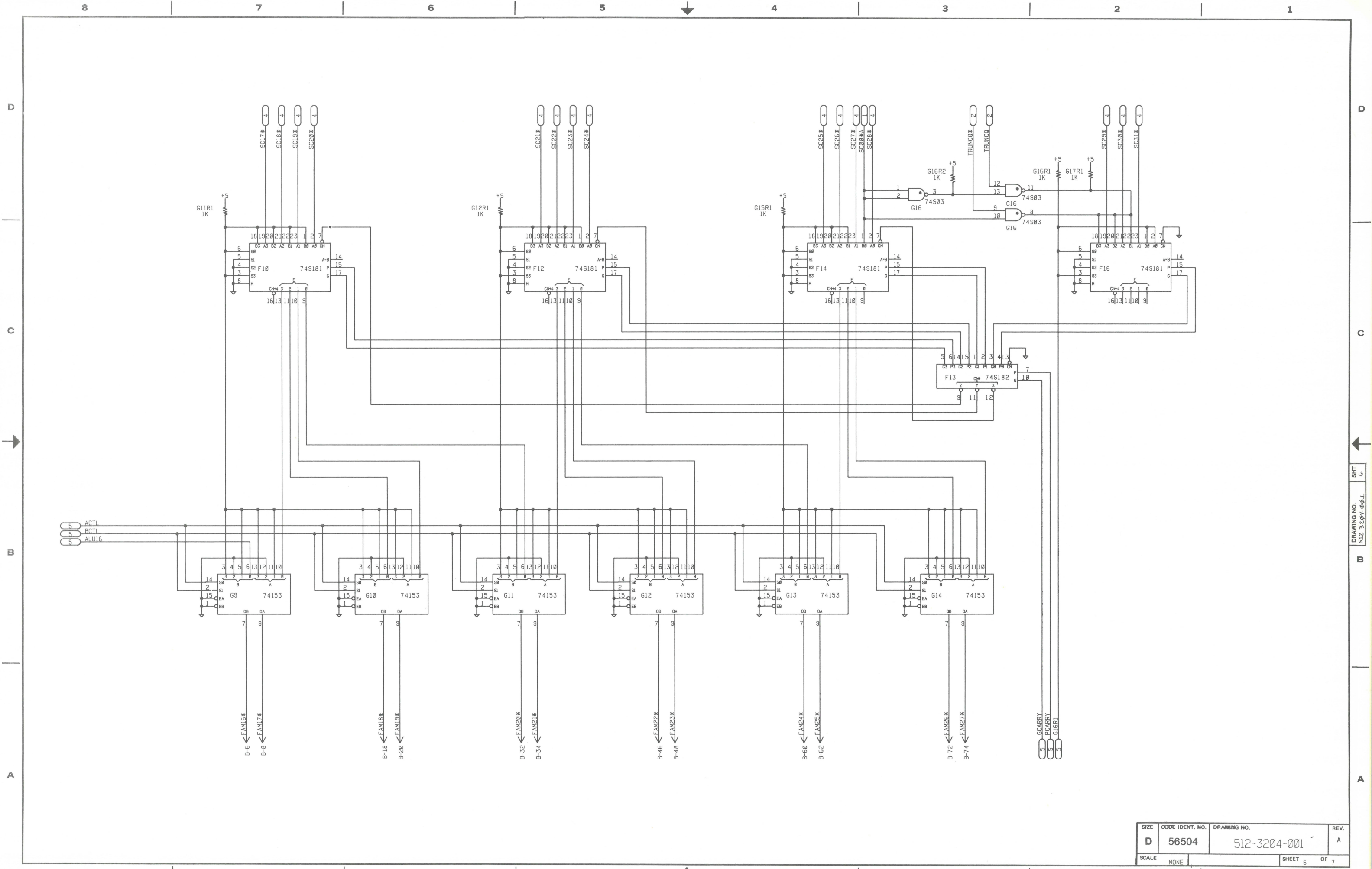


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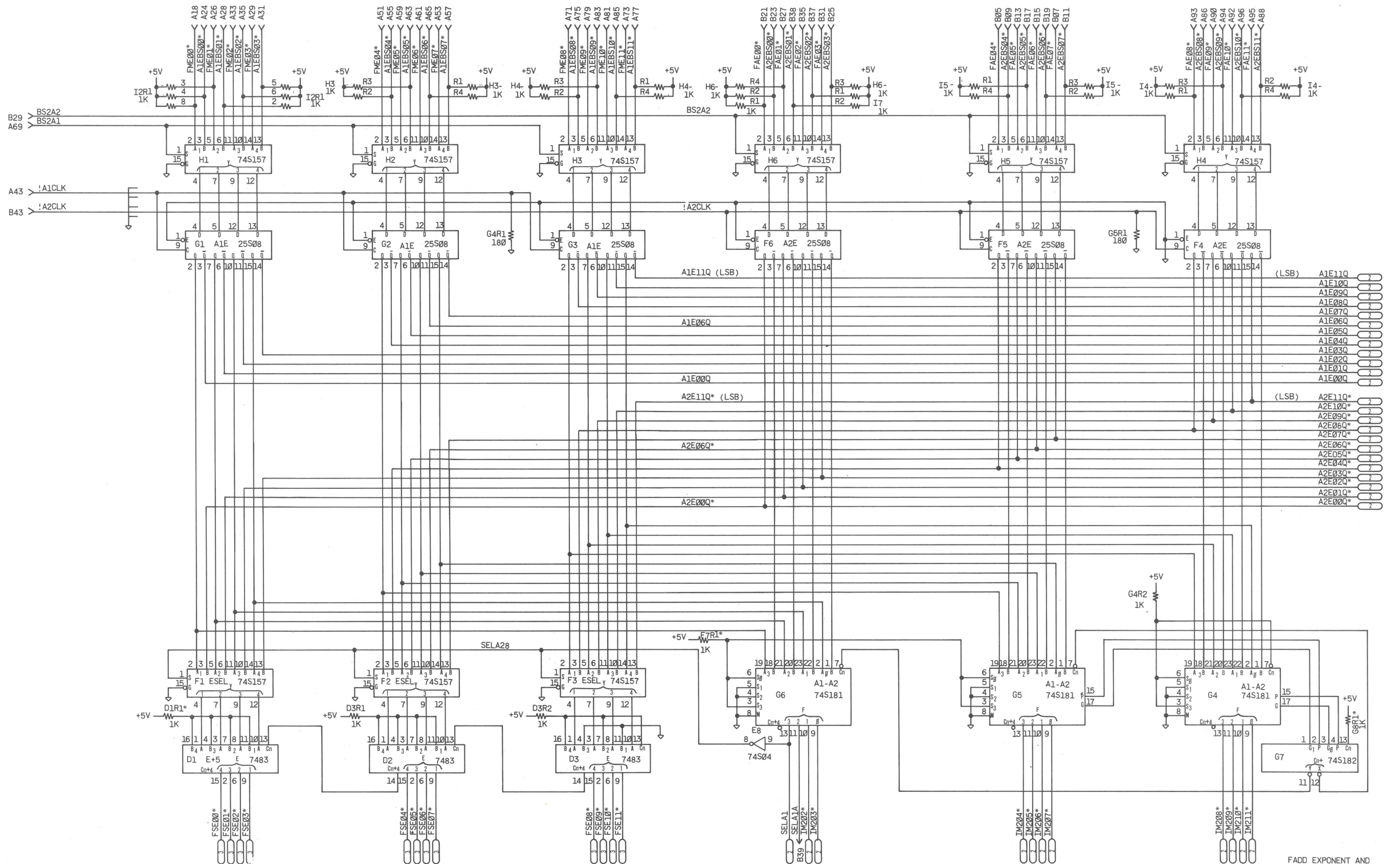




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D	56504	512-3204-001	A
SCALE	NONE	SHEET 5 OF 7	



SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3204-001	A
SCALE	NONE	SHEET 6 OF 7	



FADD EXPONENT AND
EXPONENT ALIGNMENT LOGIC

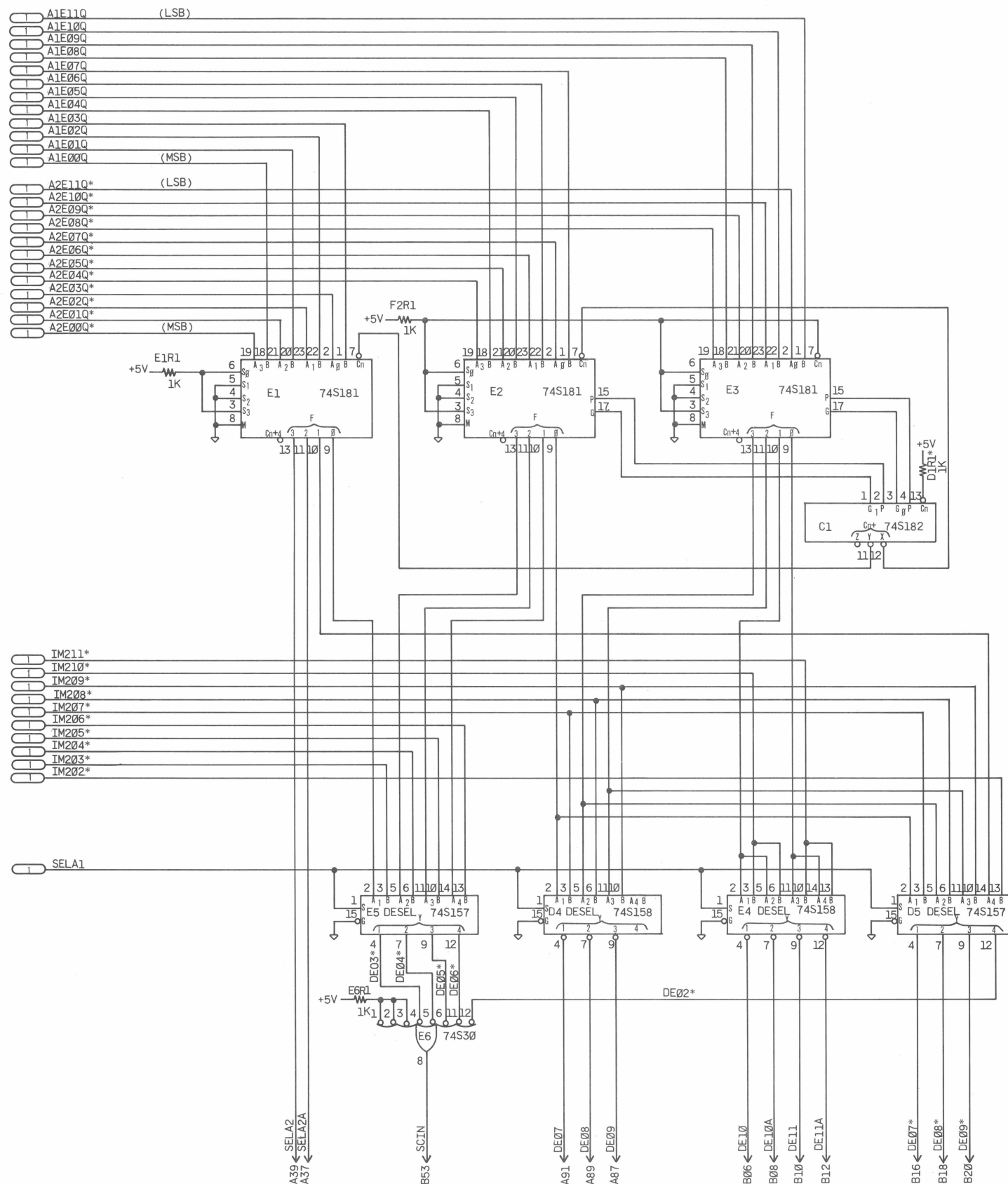
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01	ECO 79113	LEVEL 2 RELEASE		3/28/79	BTB 3/28
A	ECO 79381	LEVEL 3 RELEASE		8/24/79	2.0. 8/24/79

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ENG. *[Signature]* 4/1/79
DRK. *[Signature]*
CHK. M. Fisher 12-27-77
PROD. RELEASE M.L.
DEC. TOL. *[Signature]* 8/31/79
TITLE SCHEMATIC, ECB, 205-B, FLOATING ADDER 3
DWG. NO. 512-3205-000
REV. A

FLOATING POINT SYSTEMS, INC.
PO BOX 23499 PORTLAND OR 97223



FADD EXPONENT AND
EXPONENT ALIGNMENT LOGIC

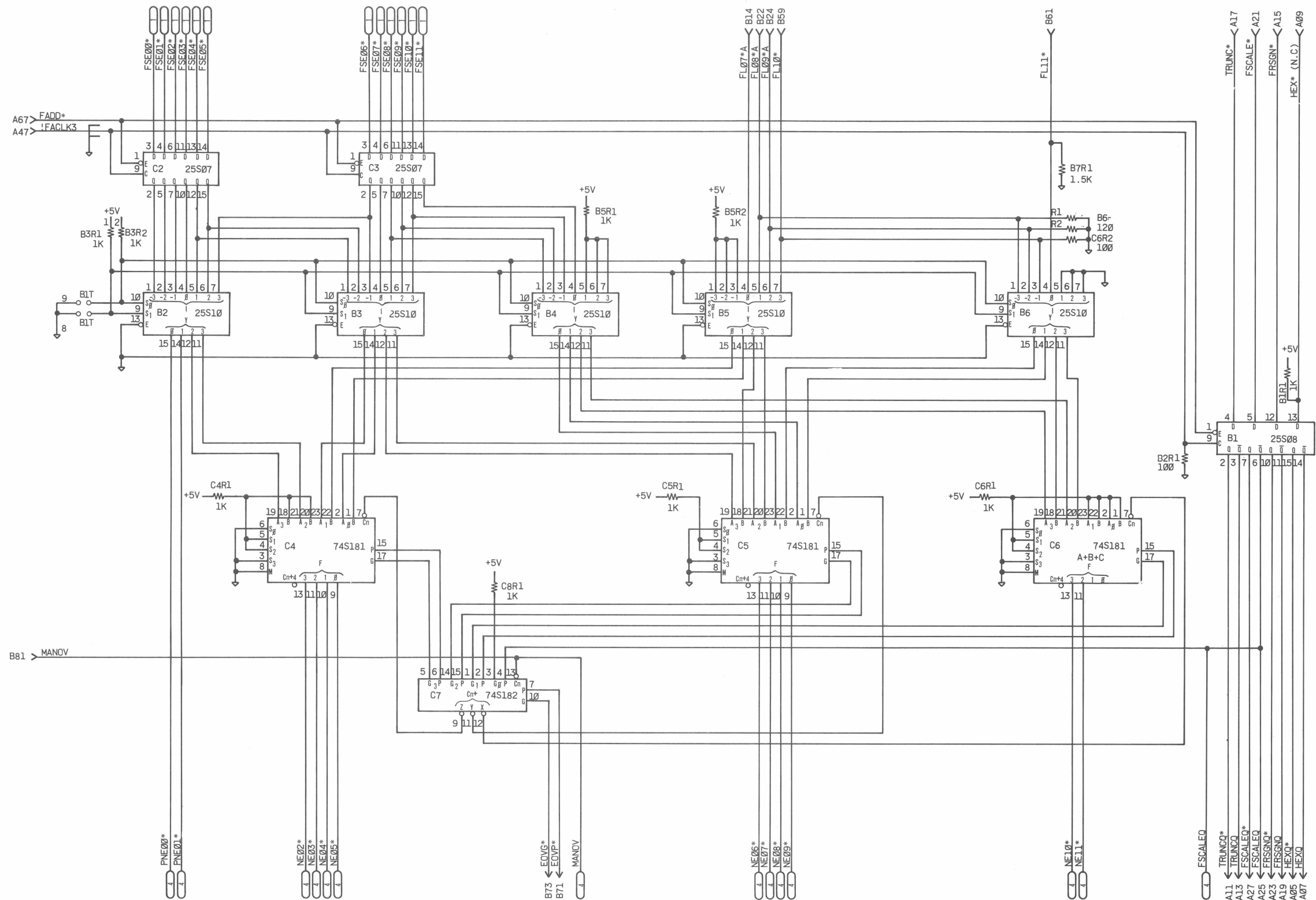
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ENG.
DRN. *John J. Leber*
CHK.
PROD. RELEASE
DEC. 100.

TITLE
SCHEMATIC, ECB,
205-B,
FLOATING ADDER 3
DWG. NO. 512-3205-000

FLOATING POINT SYSTEMS, INC.
PO BOX 23489 PORTLAND OR 97223
PAGE 2 OF 4
REV. A

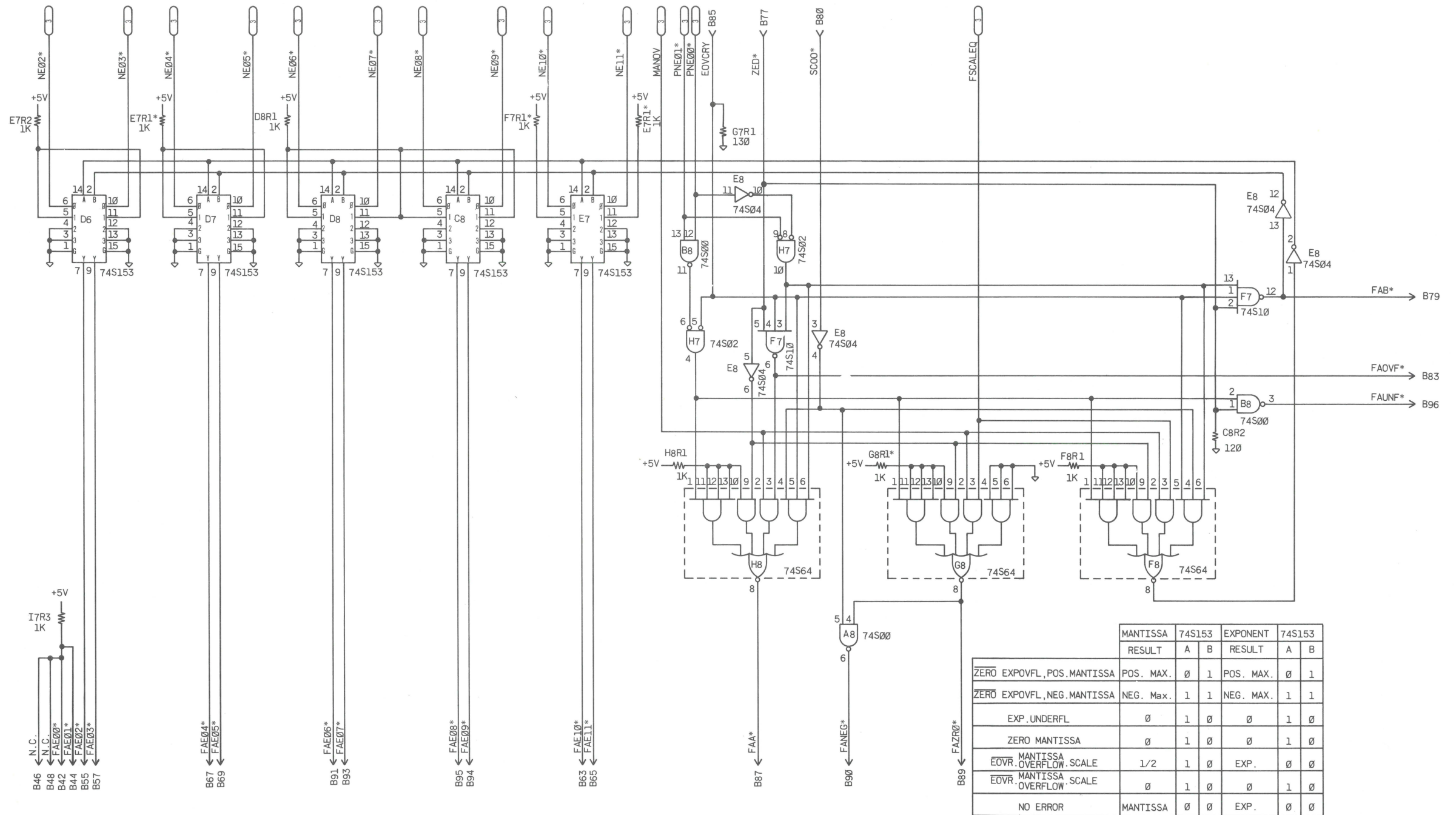


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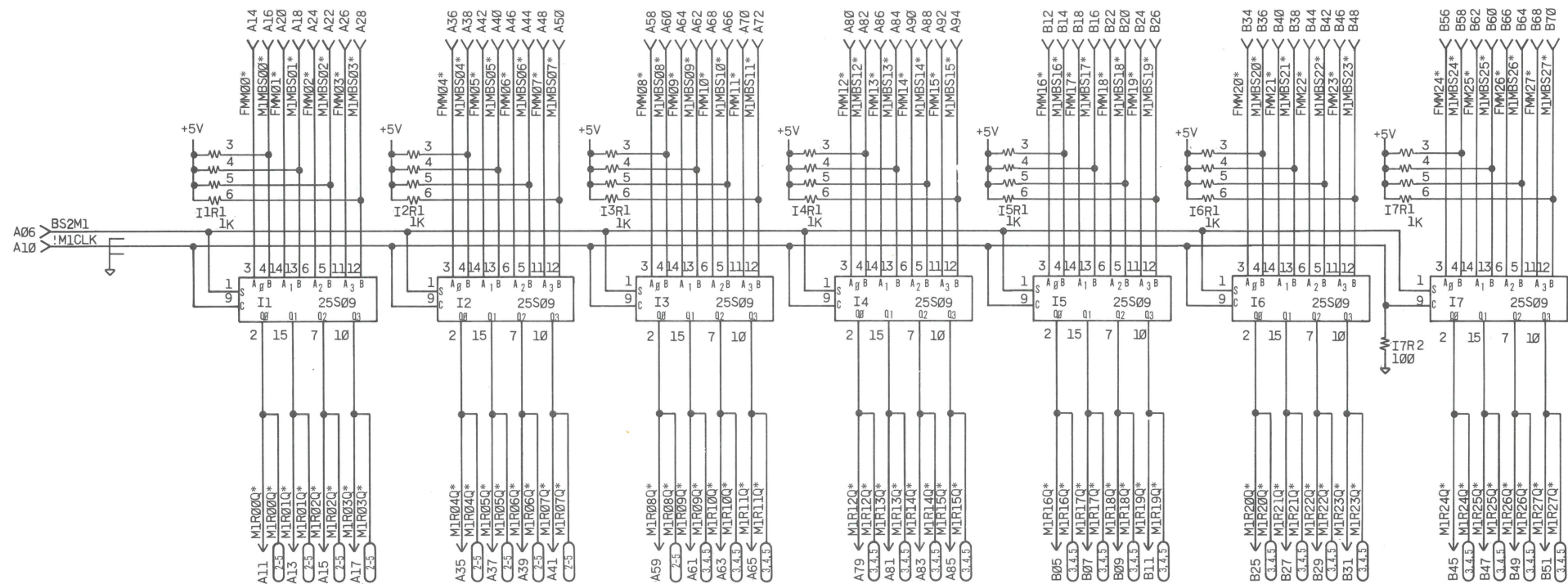
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DRN. <i>J.Hellen</i>	SCHEMATIC, ECB, 205-B,	
CHK.	FLOATING ADDER 3	
PROD. RELEASE	M.L.	
DEC. 101.	DWG. NO. 512-3205-000	PAGE 3 OF 4
		REV. A

NORMALIZE SHIFT COUNT ADDER



EXPONENT OUTPUT
OVERFLOW/UNDERFLOW LOGIC

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M1 MANTISSA REGISTER

REVISIONS					
REV	AUTH	DESCRIPTION	ZONE	APVD/DATE	CHK/DATE
A	ECO 79380	LEVEL 3 RELEASE		20R 8-23-79	7W 8-23-79

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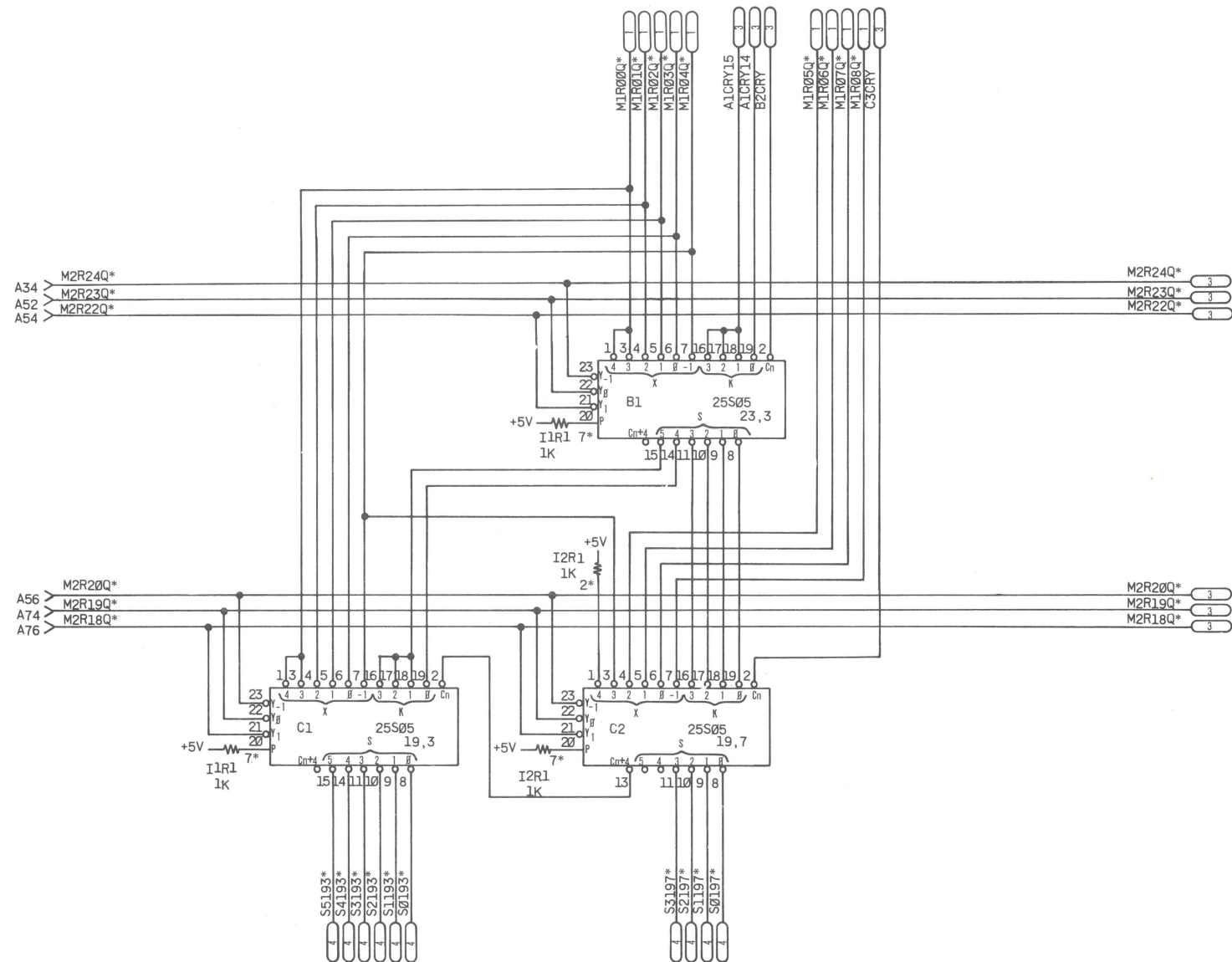
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ENG. *9/21/79*
DRM. *W. R. Robinson*
CHK. *John Wilson 1-8-78*
PROD. RELEASE *1M.L.*
DEC. TOL. *Ben Brink 4/31/79*

TITLE
SCHEMATIC, ECB,
206-A,
FLOATING MULTIPLIER A
DWG. NO. 512-3706-000
PAGE 1 OF 6
REV. A

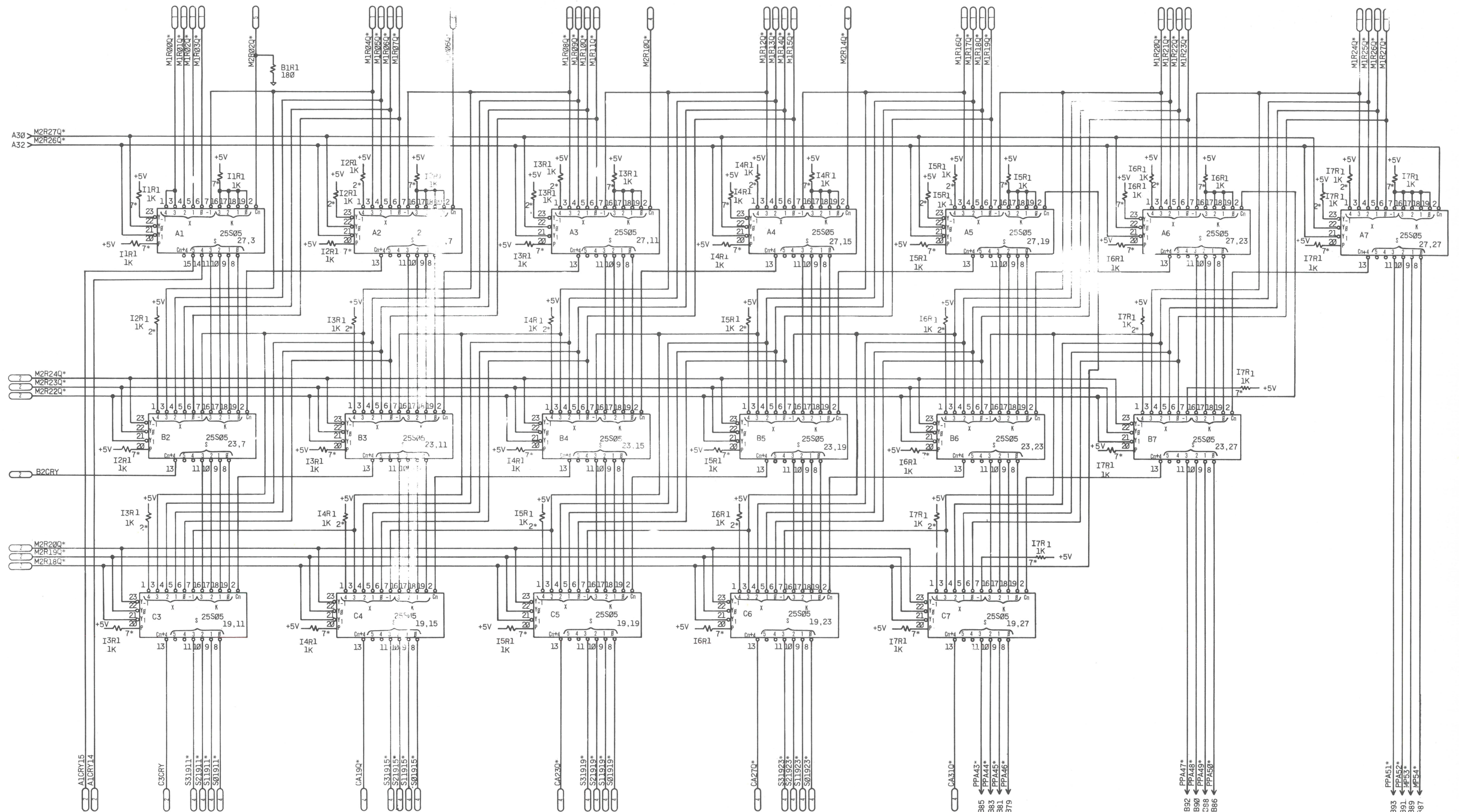


FLOATING POINT
SYSTEMS, INC.
PO BOX 23489 PORTLAND, OR 97223



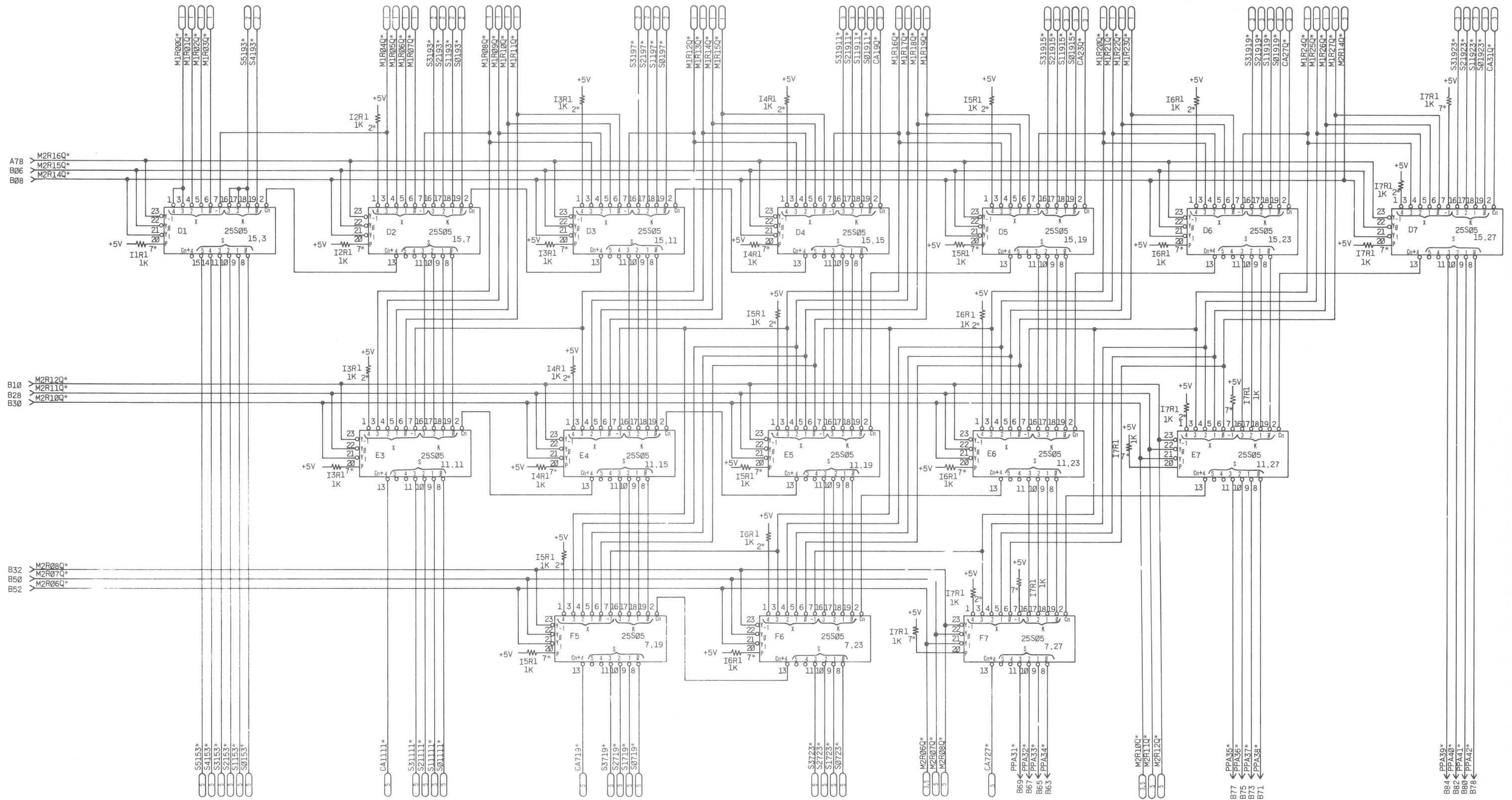
FIRST STAGE OF MULTIPLIER ARRAY

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FIRST STAGE OF MULTIPLIER ARRAY

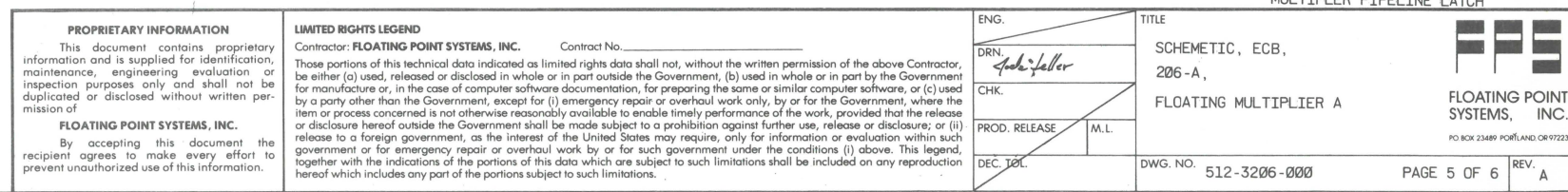
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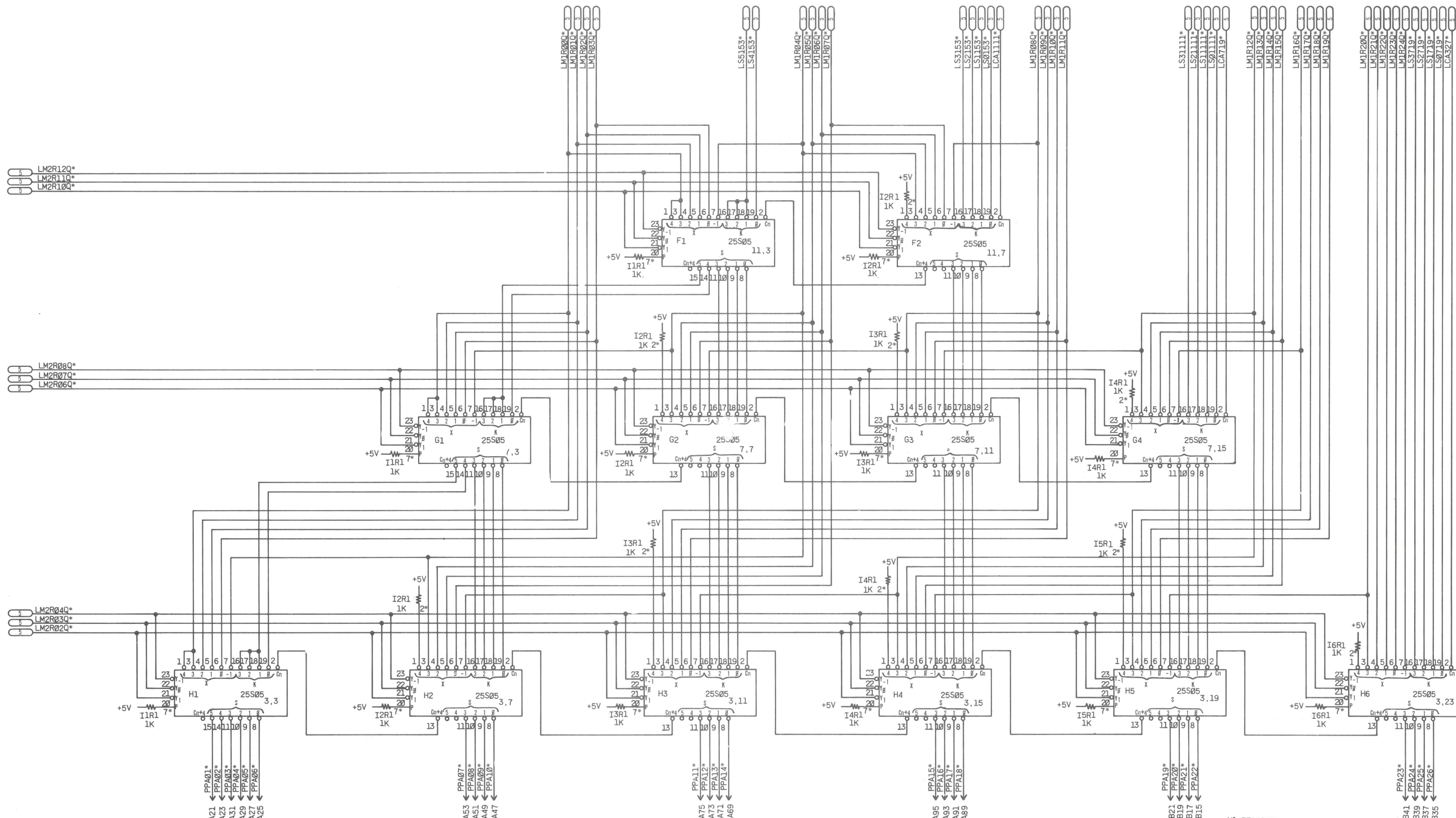


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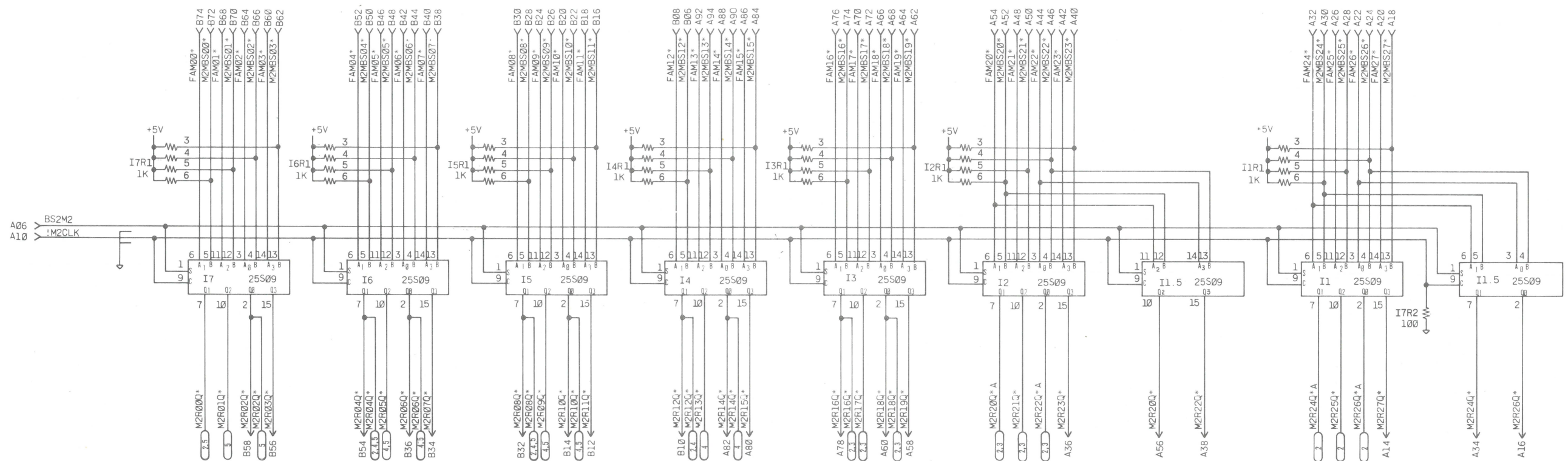
ENG.		TITLE	FIRST STAGE OF MULTIPLIER ARRAY SCHEMATIC, ECB, 206-A, FLOATING MULTIPLIER A		
DRN.					
CHK.					
PROD. RELEASE		M.L.			
DEC. 101.		DWG. NO.	512-3206-000	PAGE 4 OF 6	REV. A





M1 REGISTER
SECOND STAGE OF MULTIPLIER ARRAY

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M2 MANTISSA REGISTER

REVISIONS					
REV	AUTH	DESCRIPTION	ZONE	APVD/DATE	CHK/DATE
A	ECO 79379	LEVEL 3 RELEASE		8/21/79	7/10/8-24-79

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ENG. *Walter*
CHK. *Q. Gompleski 9/25/78*
M.L. *4-27-78*
PROD. RELEASE
DEC. TOR *Ken Bueck 8/31/79*

TITLE
SCHEMATIC, ECB,
207-B,
FLOATING MULTIPLIER B

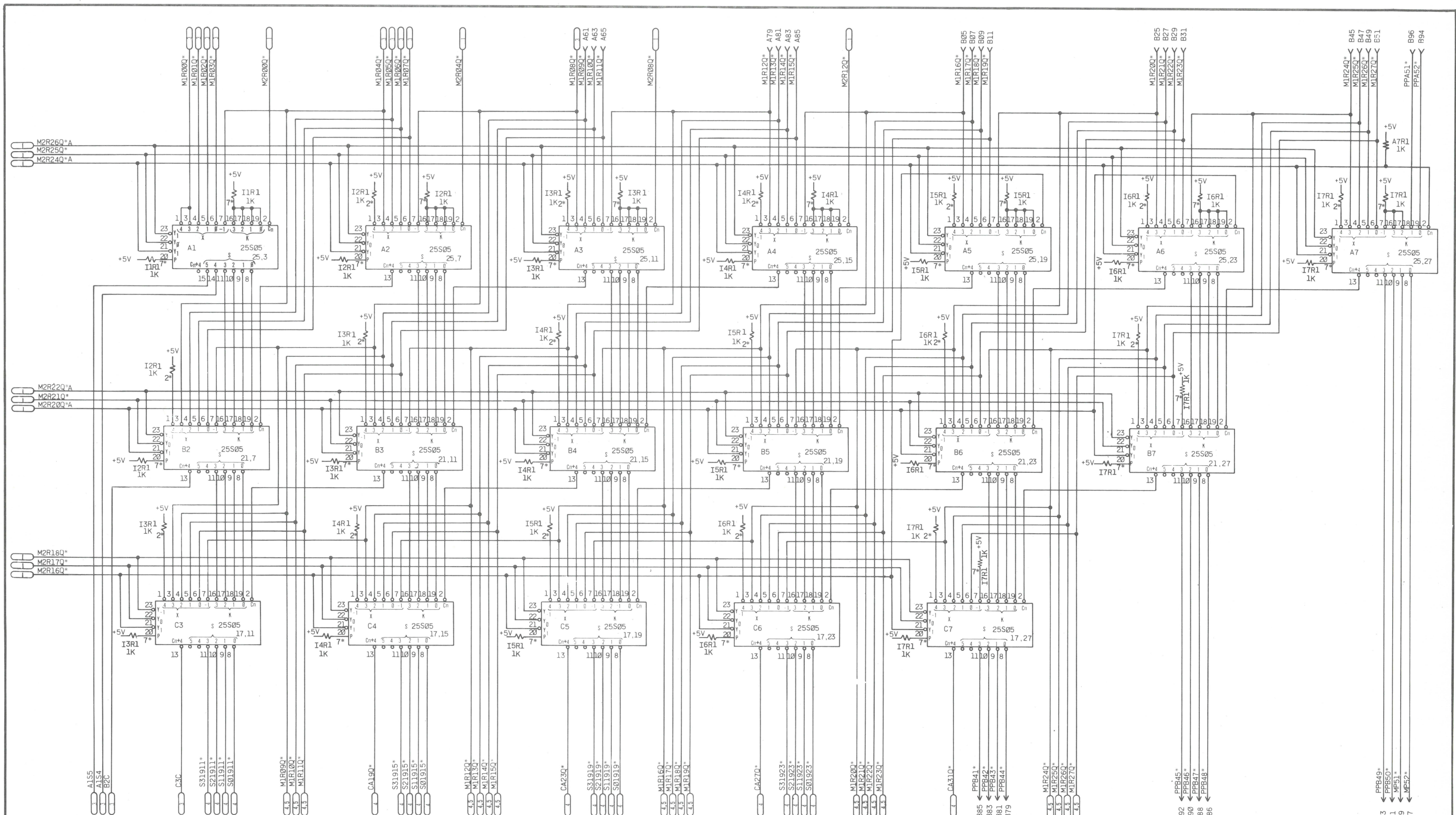


FLOATING POINT
SYSTEMS, INC.

DWG. NO. 512-3207-001

PAGE 1 OF 6

REV A

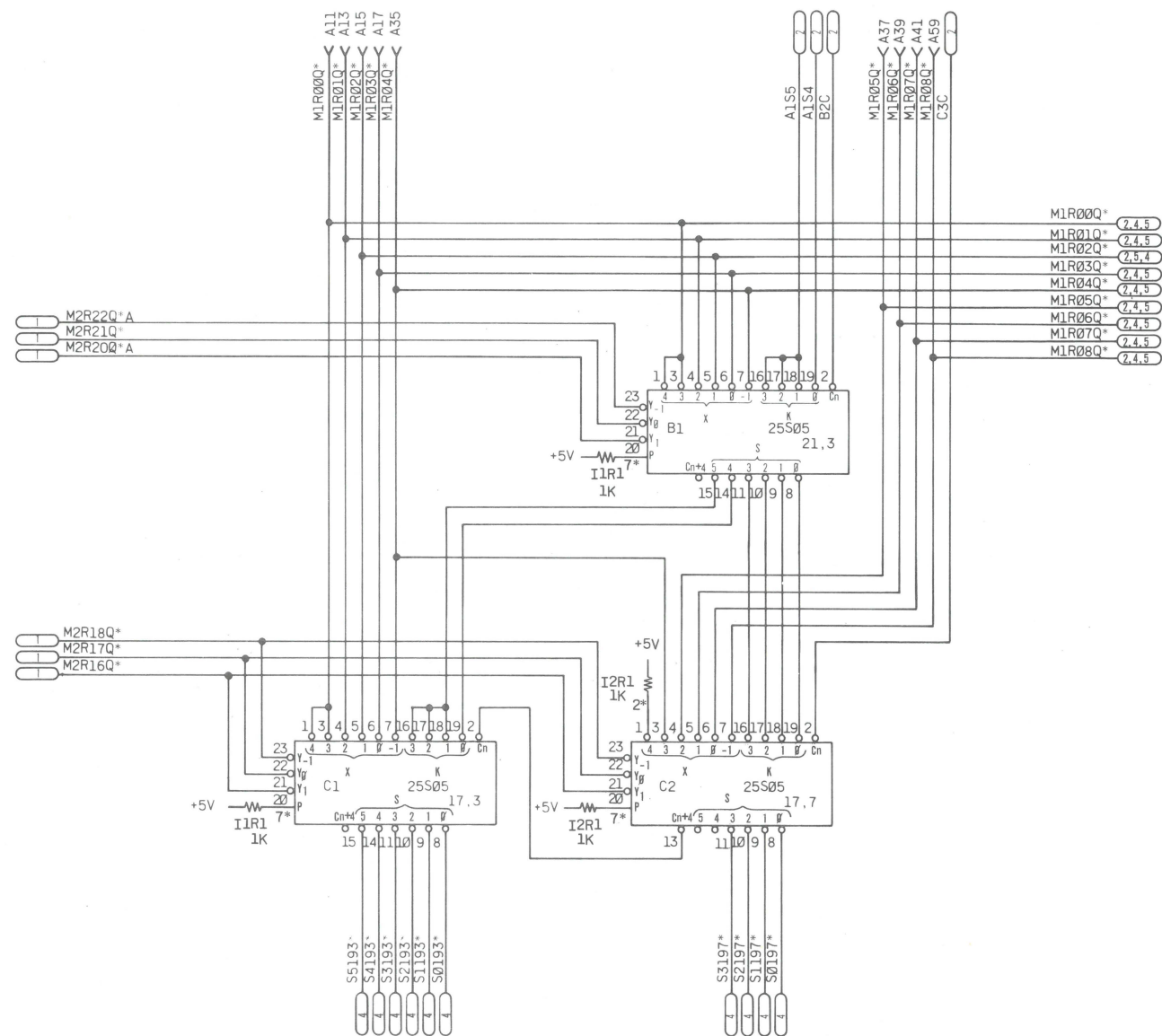


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ENG.	TITLE
DRN.	SCHEMATIC, ECB,
CHK.	207-B,
	FLOATING MULTIPLIER B
PROD. RELEASE	
DEC. 101	DWG. NO. 512-3207-001
	PAGE 2 OF 6
	REV. A

FLOATING POINT SYSTEMS, INC.
101 BR 1 / MARY HIGHT AND COMPANY

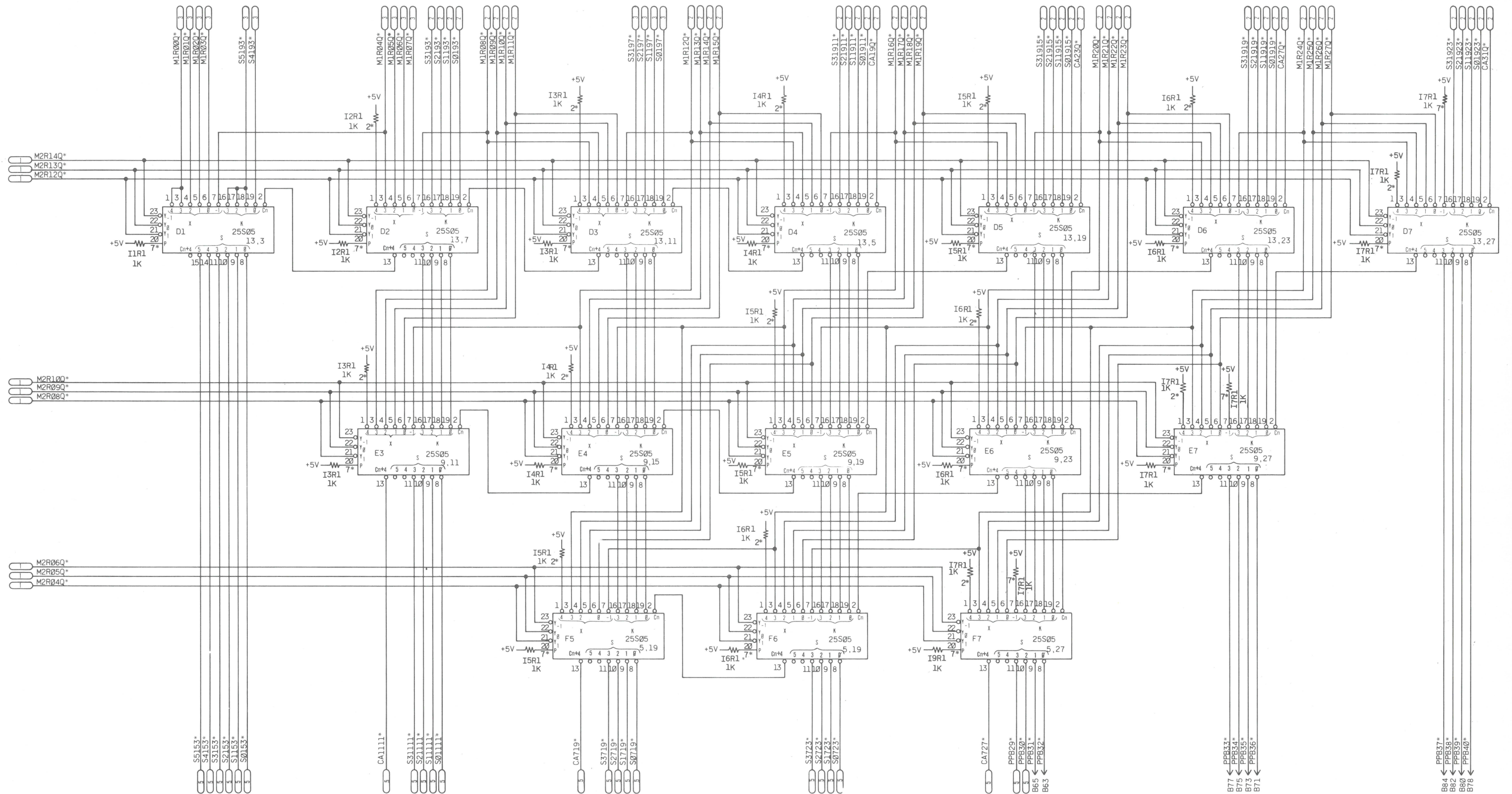


FIRST STAGE OF MULTIPLIER ARRAY

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FLOATING POINT
SYSTEMS, INC.
FDI BOX 214891 FORTY AND C/9723



FIRST STAGE OF MULTIPLIER ARRAY

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TITLE

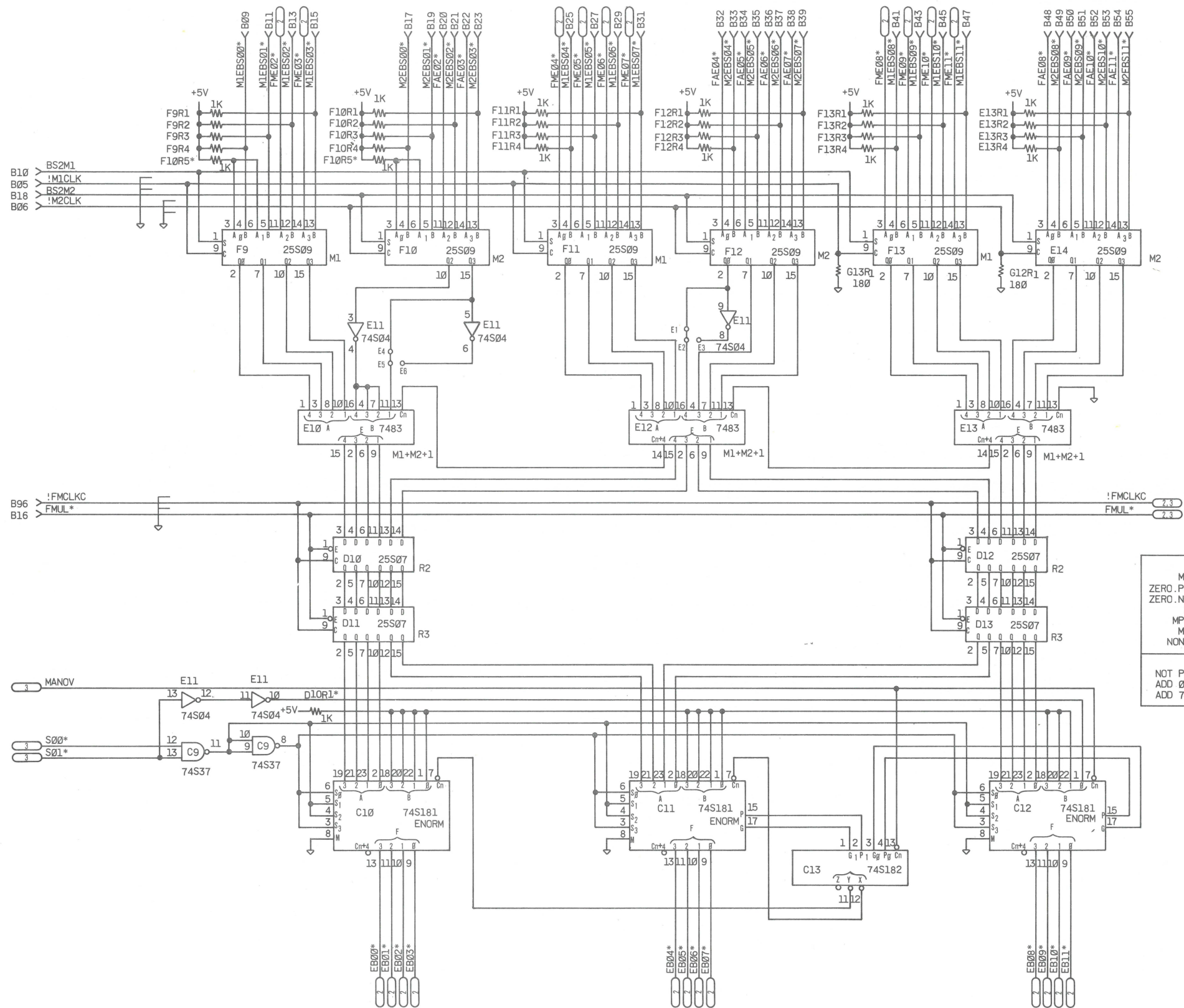
SCHEMATIC, ECB,
207-B,
FLOATING MULTIPLIER B

DWG. NO.

512-3207-001

FPS
FLOATING POINT
SYSTEMS, INC.
 P.O. BOX 2348V, PORTLAND, OR 97223

OF 6	REV. A
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BIASED EXPONENT			
MANTISSA	B, A	EXP	B, A
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ZERO .NOVFL=NMAX	3	PMAX	3
UNFL=0	1	0	1
MPSZR0=0	1	0	1
MANOV=1/2	1	EXP	0
NONE=MANTISSA	0	EXP	0
MANOV=1		MANOV=0	
NOT POSSIBLE S1=S0=0		EXP ADD 0 IF S1=S0=0	
ADD 0 IF S0=1		ADD 7777 IF S0=1	
ADD 7777 IF S1=1		ADD 7776 IF S1=1	

FMUL EXPONENT HARDWARE

REVISIONS					
REV	AUTH	DESCRIPTION	ZONE	APVD/DATE	CHK/DATE
01	ECO 79113	LEVEL 2 RELEASE		3/20/79	B. J. 3/20/79
A	ECO 78378	LEVEL 3 RELEASE		8/8/79	7/8-24-79

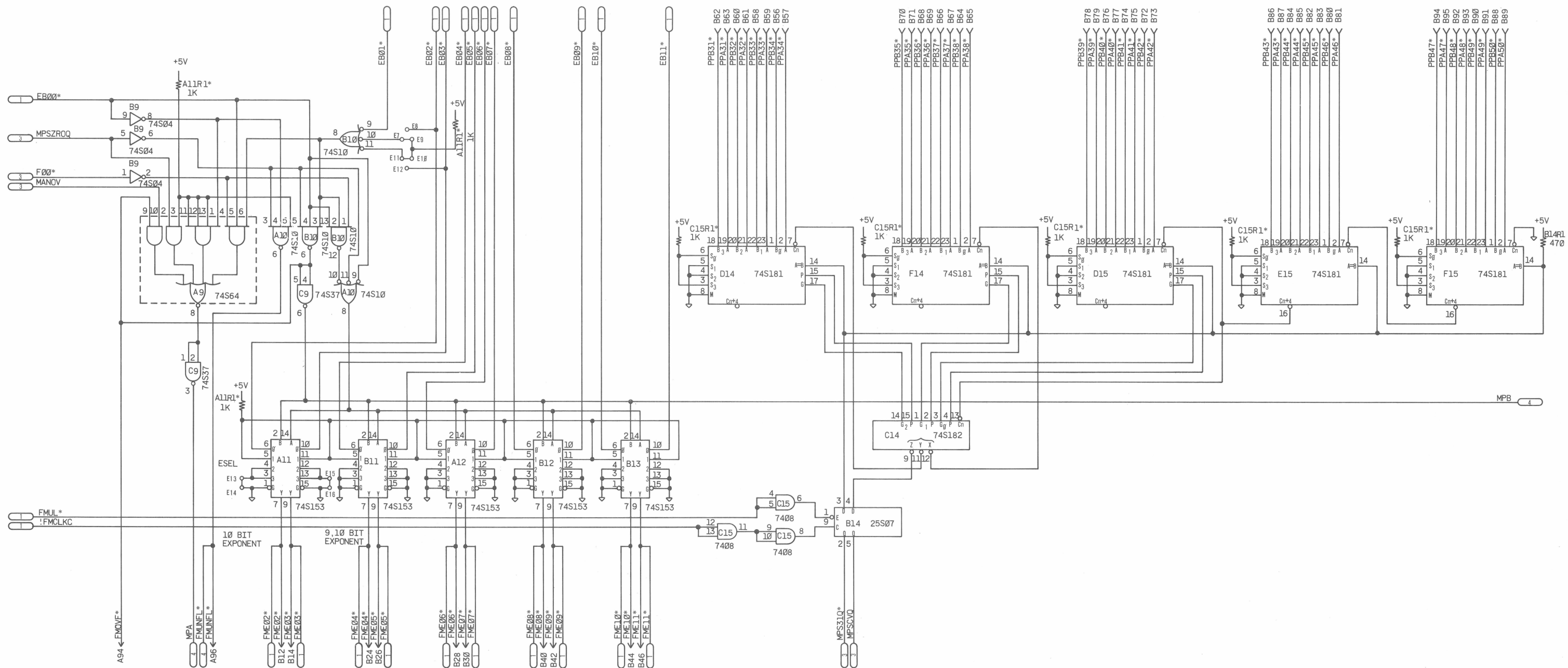
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ENC
J. W. 12-27-77
PROD. RELEASE
DEC. TOL.

TITLE
SCHEMATIC, ECB,
208-0,
FLOATING MULTIPLIER C
DWG. NO. 512-3208-000
PAGE 1 OF 4
REV. A



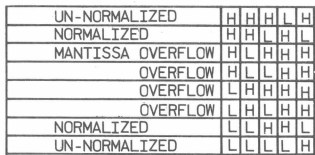


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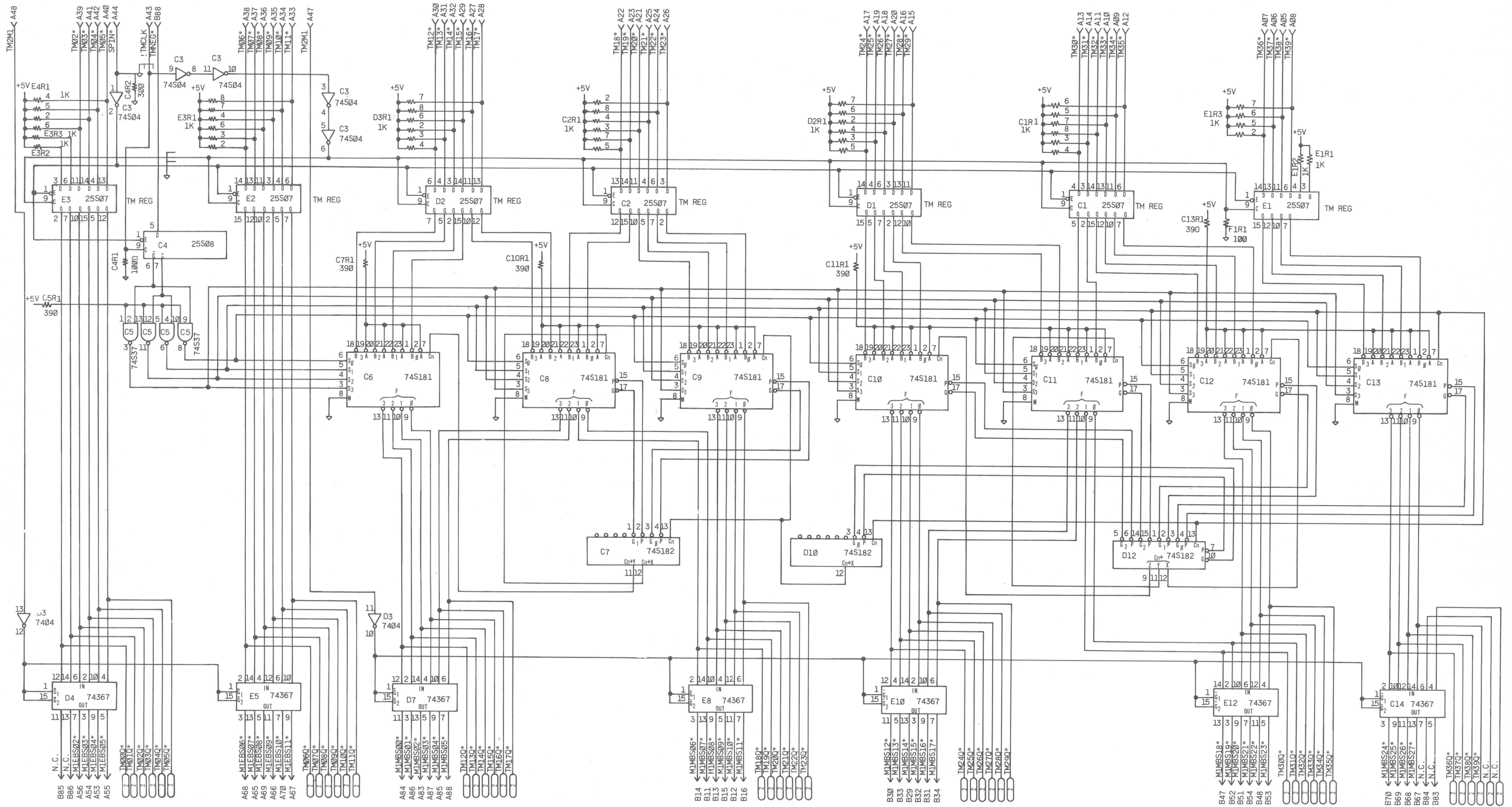
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DRN <i>Jack J. Miller 9/20/77</i>	SCHEMATIC, ECB, 208-0, FLOATING MULTIPLIER C	
CHK.		
PROD. RELEASE	M.L.	
DEC. 100.		
DWG. NO. 512-3208-000		PAGE 2 OF 4
		REV. A



FMUL NORMALIZE AND ROUND HARDWARE

BOX 23489 PORTLAND, OR 97223



REVISIONS					
REV	AUTH	DESCRIPTION	ZONE	APVD/DATE	CHK/DATE
A	ECO 79377	LEVEL 3 RELEASE		DRY 9-23-79	FW 8-28-79

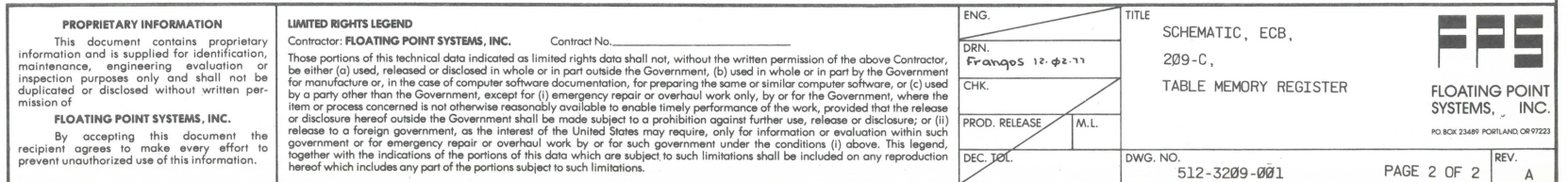
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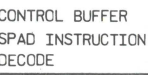
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ENG. *W. J. Fisher*
DRY: *Fromas 12-02-77*
CHK. *M. Fisher 12-27-77*
PROD. RELEASE *DEC. 79*
DEC. TOL.

TITLE
SCHEMATIC, ECB,
209-C,
TABLE MEMORY REGISTER
DWG. NO. 512-3209-001

FLOATING POINT SYSTEMS, INC.
PG BOX 23489 PORTLAND, OR 97223
PAGE 1 OF 2
REV. A





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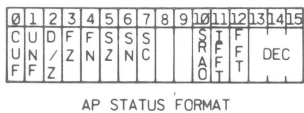
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Contractor FLOATING POINT SYSTEMS, INC. Contract No. _____

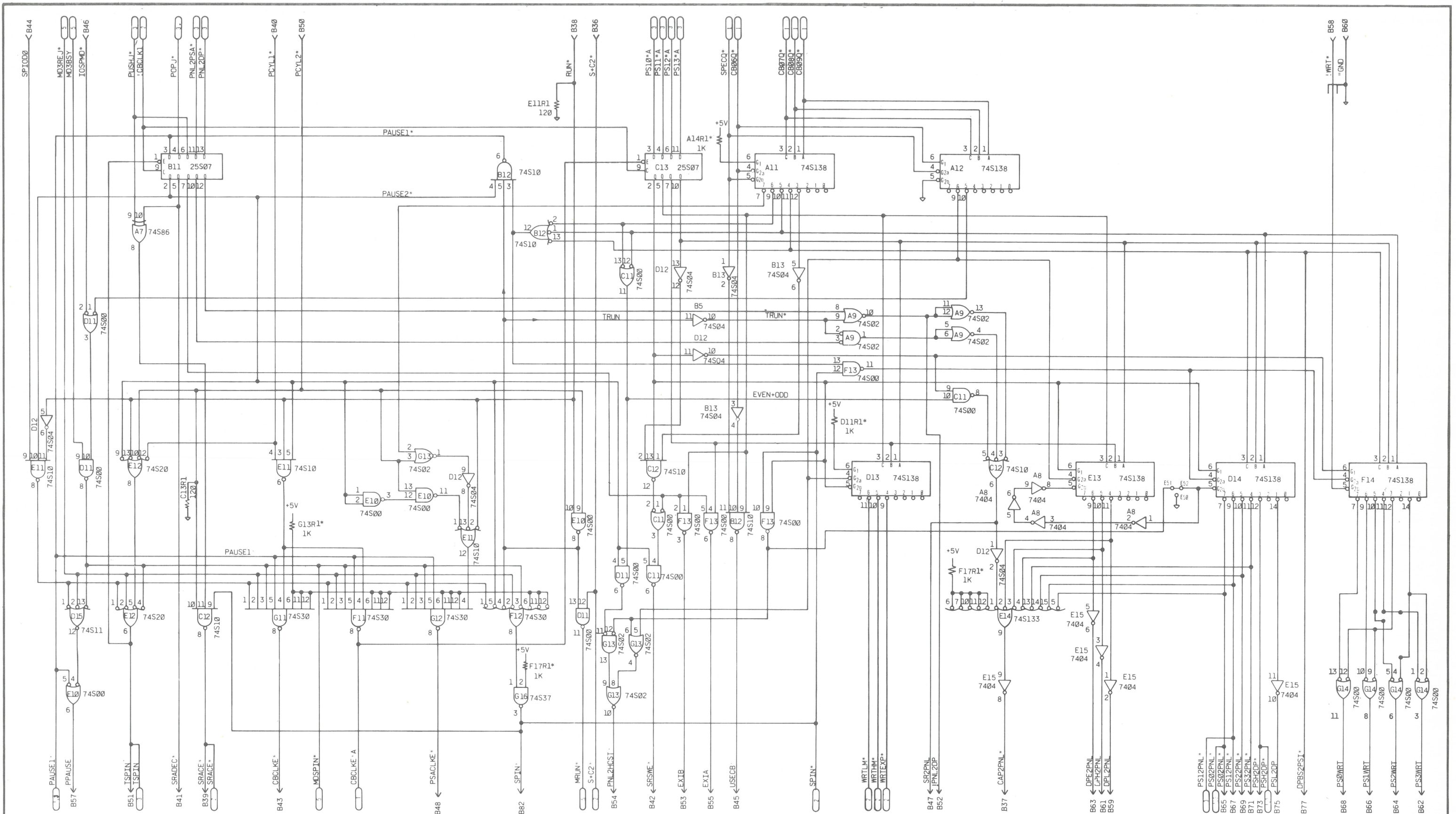
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TITLE
- SCHEMATIC, ECB,
210C,
CONTROL BUFFER 1
(16K REFRESH STD)

FLOATING POINT
SYSTEMS, INC.



PL. BUCH. 2, 1486, 1490*, AND 1491*222

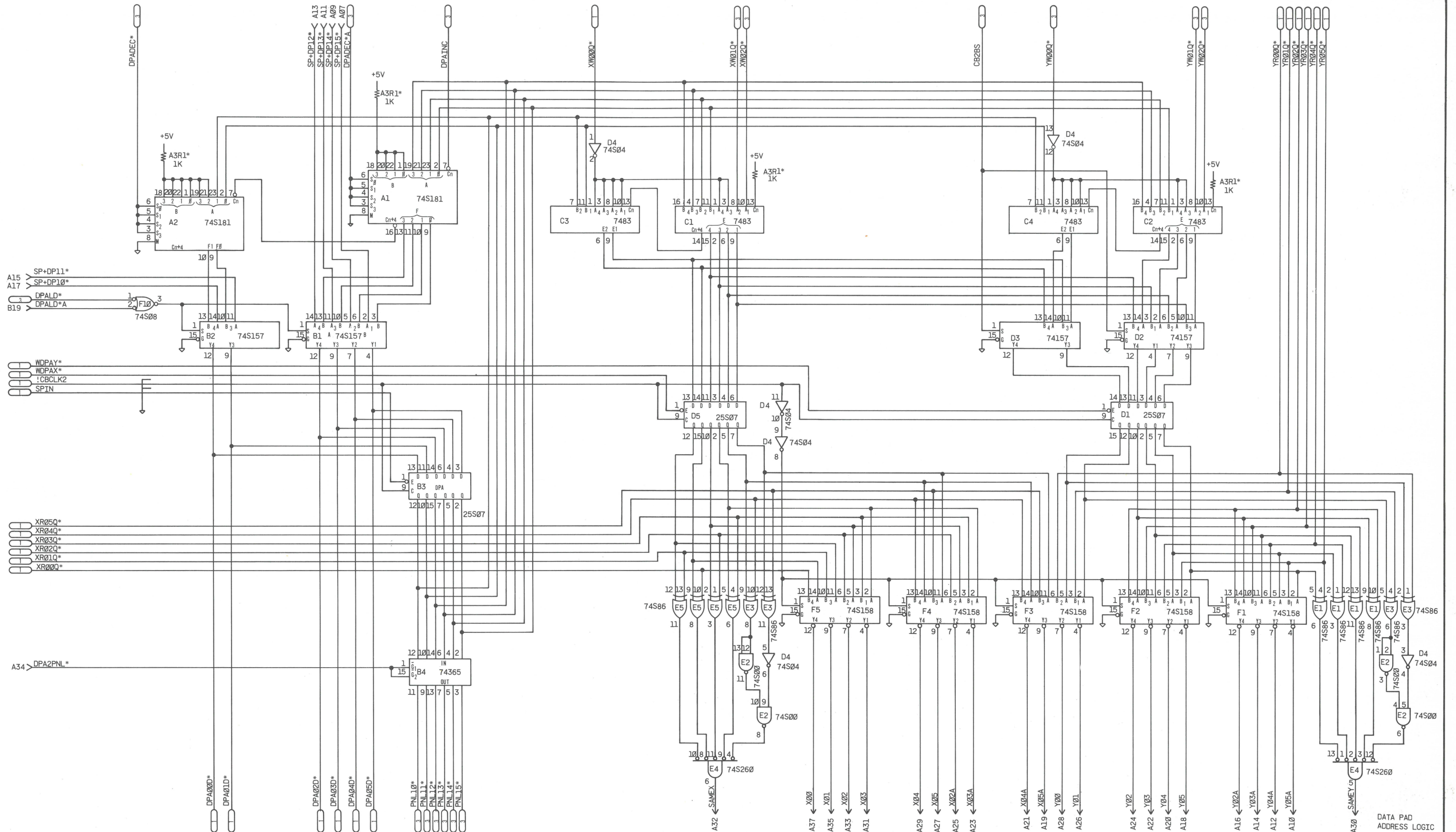


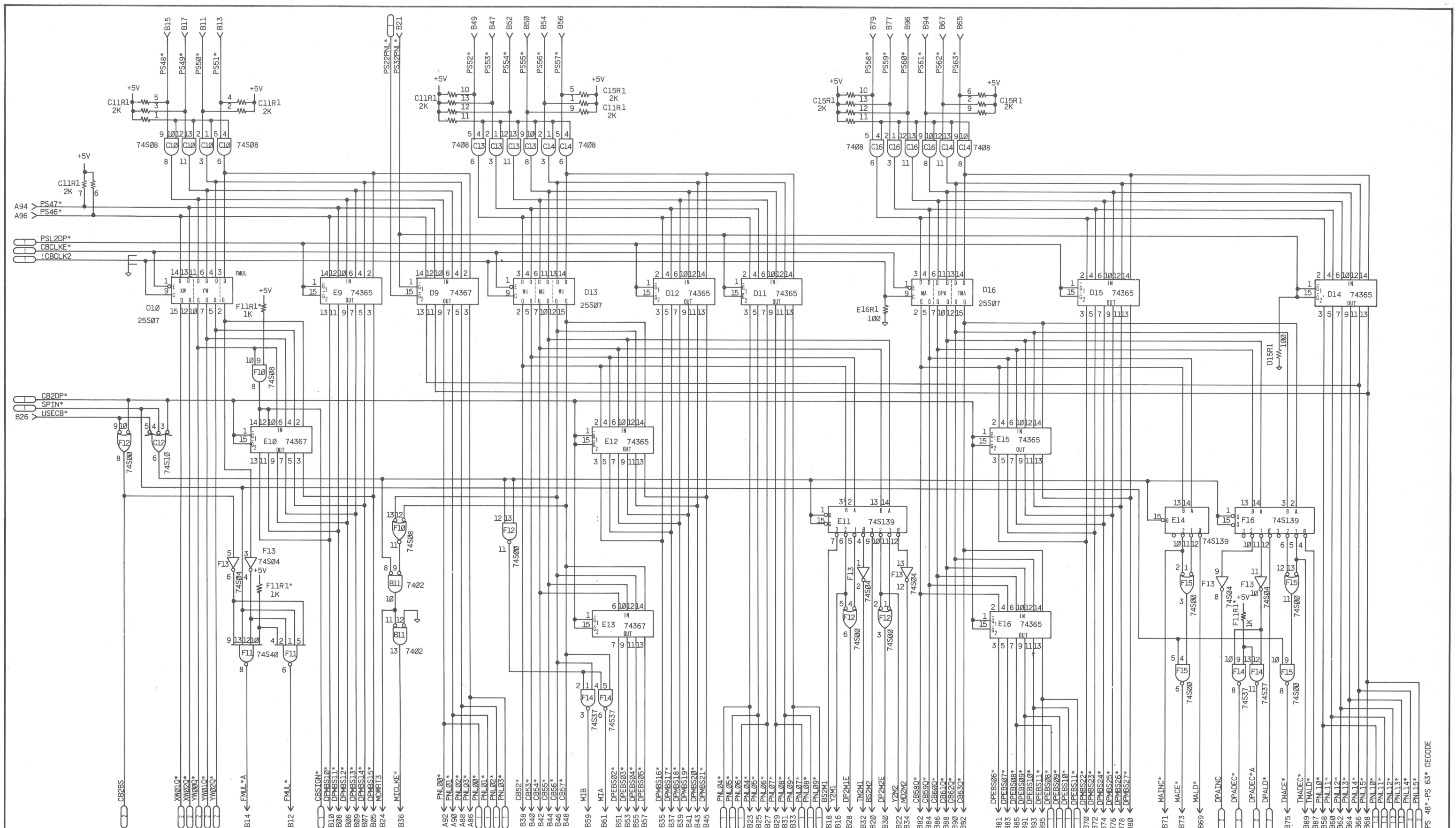
CONTROL BUFFER, SPIN LOGIC, SPECIAL OPERATIONS, DECODE LOGIC

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ENG	TITLE	 FLOATING POINT SYSTEMS, INC. 10000 W. 10TH AVE. DENVER, CO 80202
DRN	SCHEMATIC, ECB, 210C,	
CHK	CONTROL BUFFER 1 (16K REFRESH, STD)	
PROD RELEASE		
DEC 101	DWG NO	512-3210-001
	PAGE	4 OF 5
	REV	D





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ENG.	TITLE
DRN.	SCHMATIC, ECB,
CHK.	211-C,
PROD. RELEASE	CONTROL BUFFER 2
DEC. TEL.	DWG. NO. 512-3211-001
	PAGE 3 OF 3
	REV. A

FLOATING POINT SYSTEMS, INC.

PO BOX 23489 PORTLAND, OR 97223

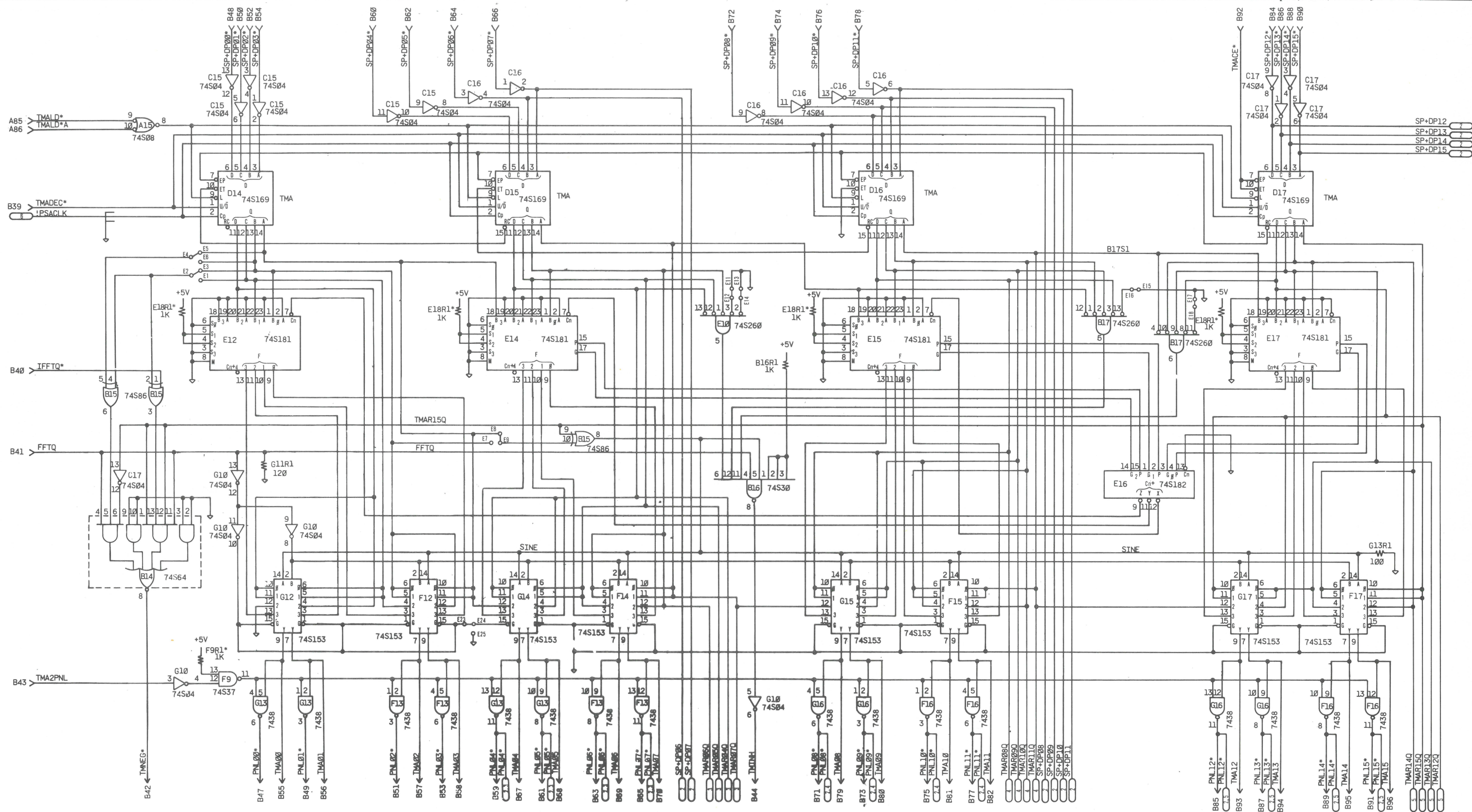


TABLE MEMORY ADDRESS

REVISION					
REV	AUTH	DESCRIPTION	DATE	APPROVE	DATE
01	EN # 01	INITIAL LEVEL 1 RELEASE			
A	ECO 79712	LEVEL 3 RELEASE	RAK/6-9-80	Mark With	3-27-80

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ENG. *Dehau 6-9-80*
DWN. S. Francis 12-22-77
CHK. *Paul With 3-27-80*
PROD. RELEASE 6-9-80
DEC. TOL. *Ben Brink*

TITLE
SCHEMATIC, ECB,
212-C,
ADDRESS REGISTER,
LOGIC INSTRUCTION
DWG. NO. 512-3212-010
PAGE 1 OF 6
REV. A



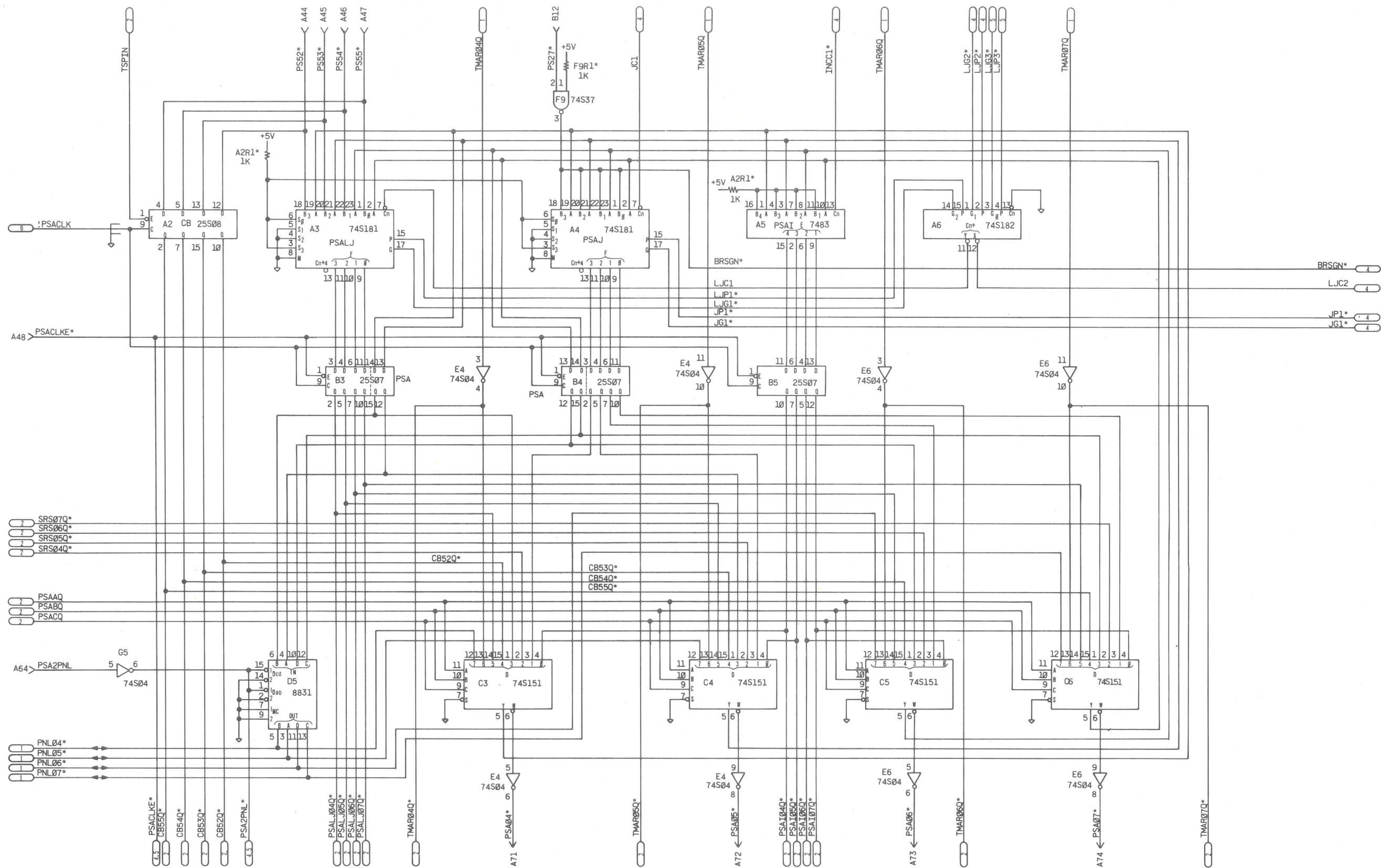


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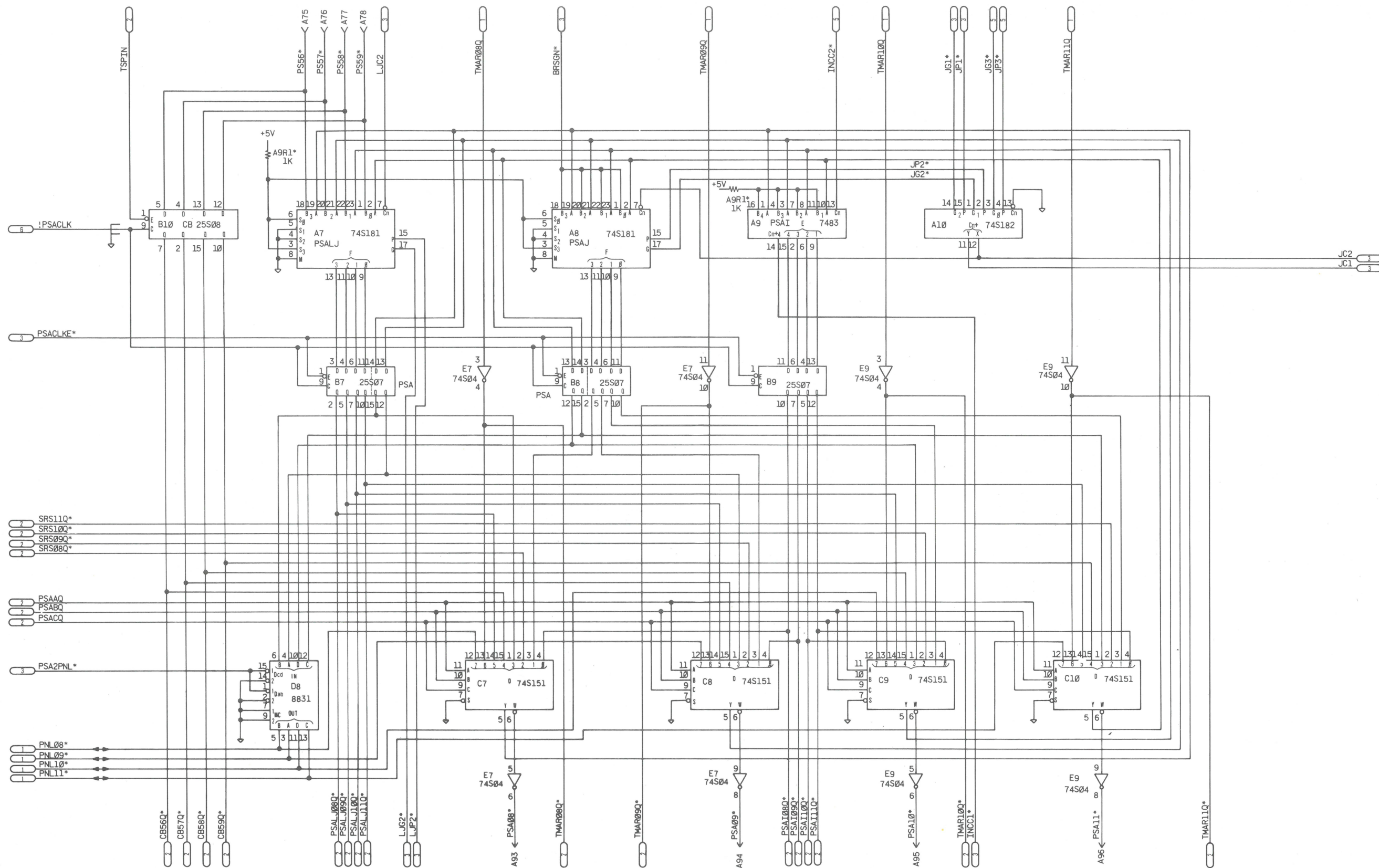
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ENG	TITLE	 FLOATING POINT SYSTEMS, INC. PO BOX 23489 PORTLAND, OR 97223	
DRN. S. Frank's 12. 12. 77	SCHEMATIC, ECB, 212-C,		
CHK.	ADDRESS REGISTER		
	LOGIC INSTRUCTION		
PROD. RELEASE			
DEC. 101	DWG. NO. 512-3212-010	PAGE 2 OF 6	REV. A



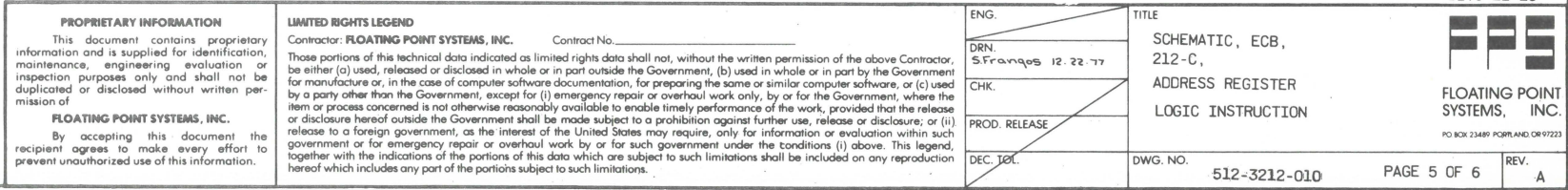
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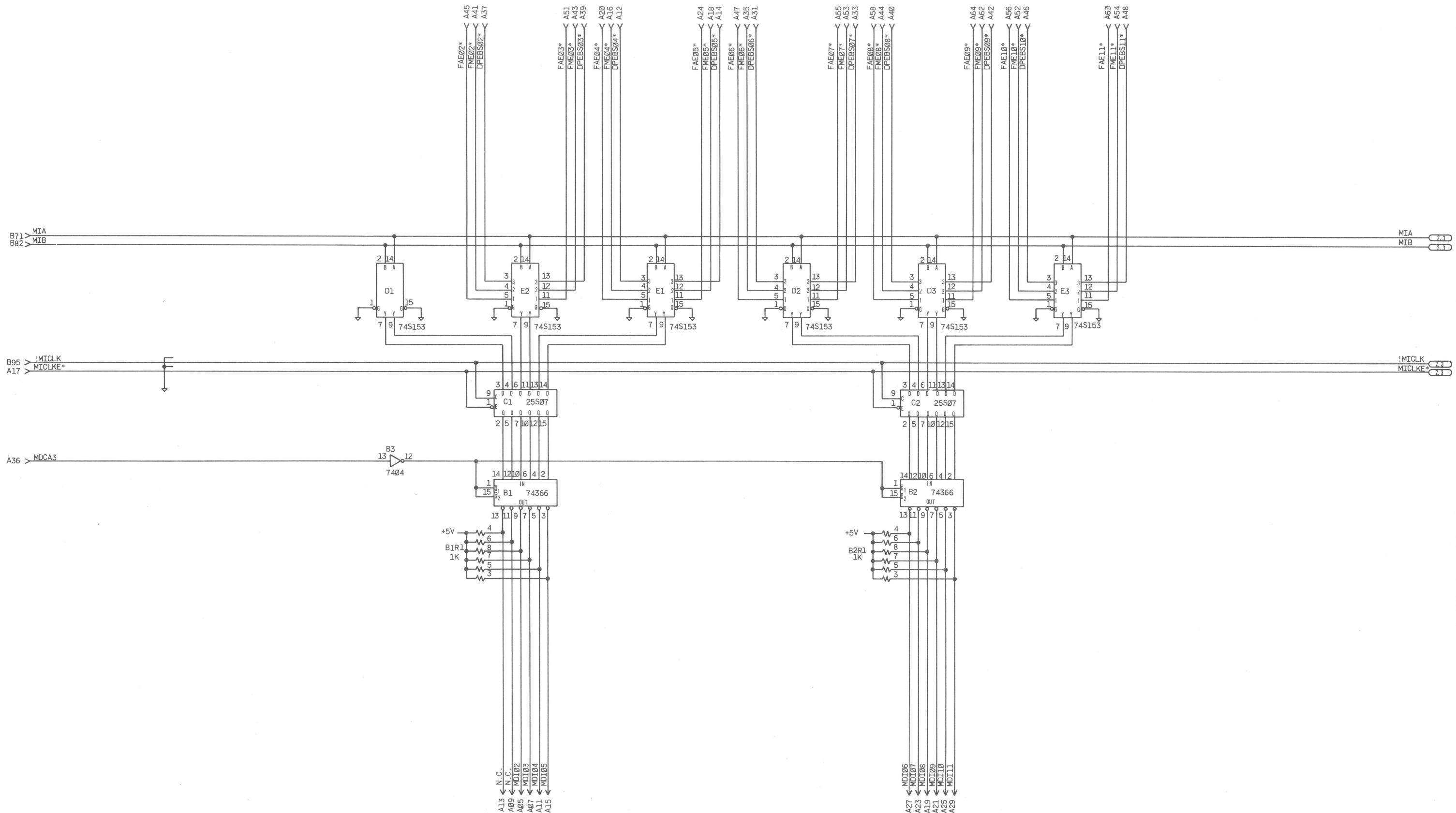
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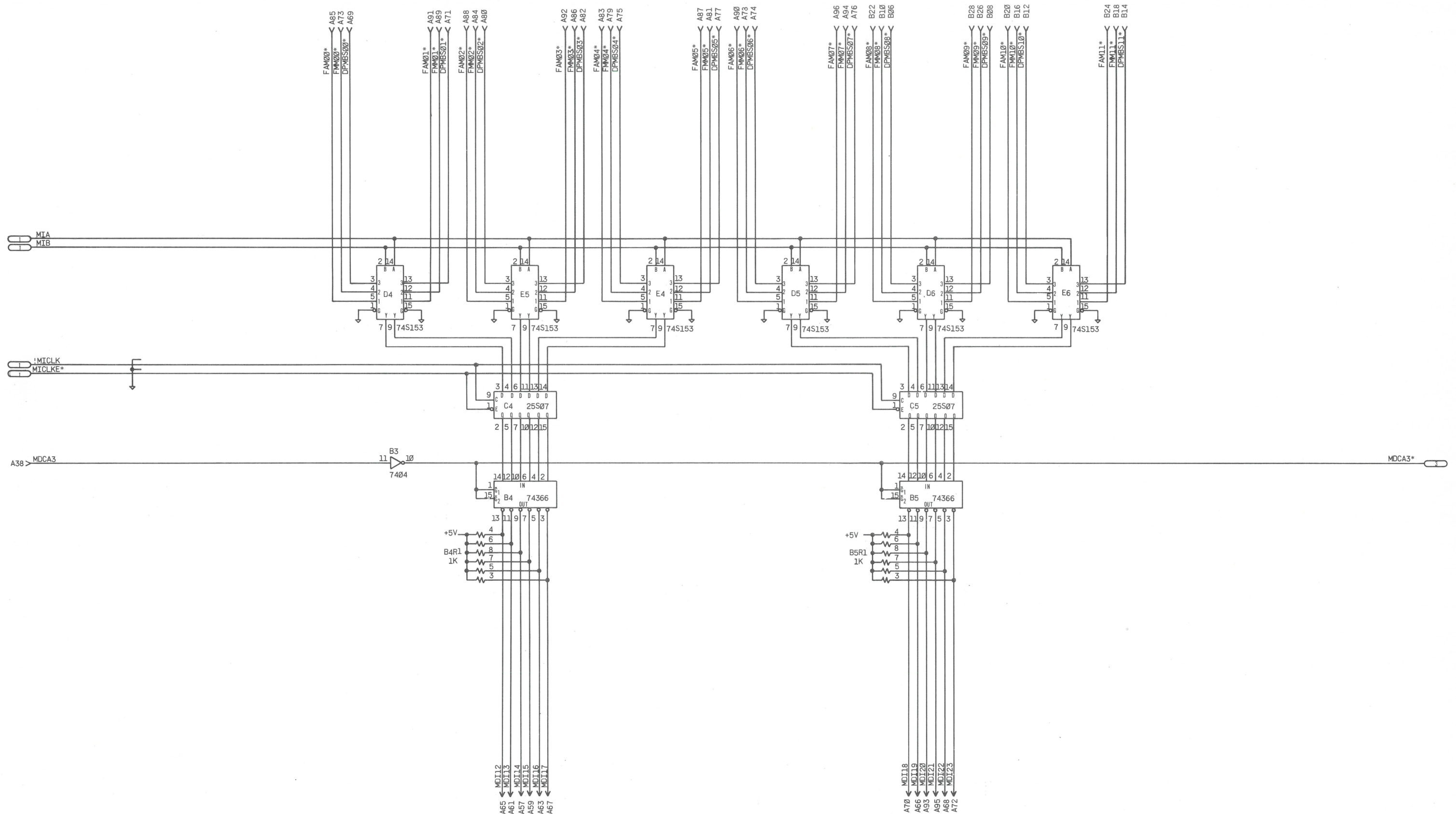


PROGRAM SOURCE ADDRESS BITS 08-11

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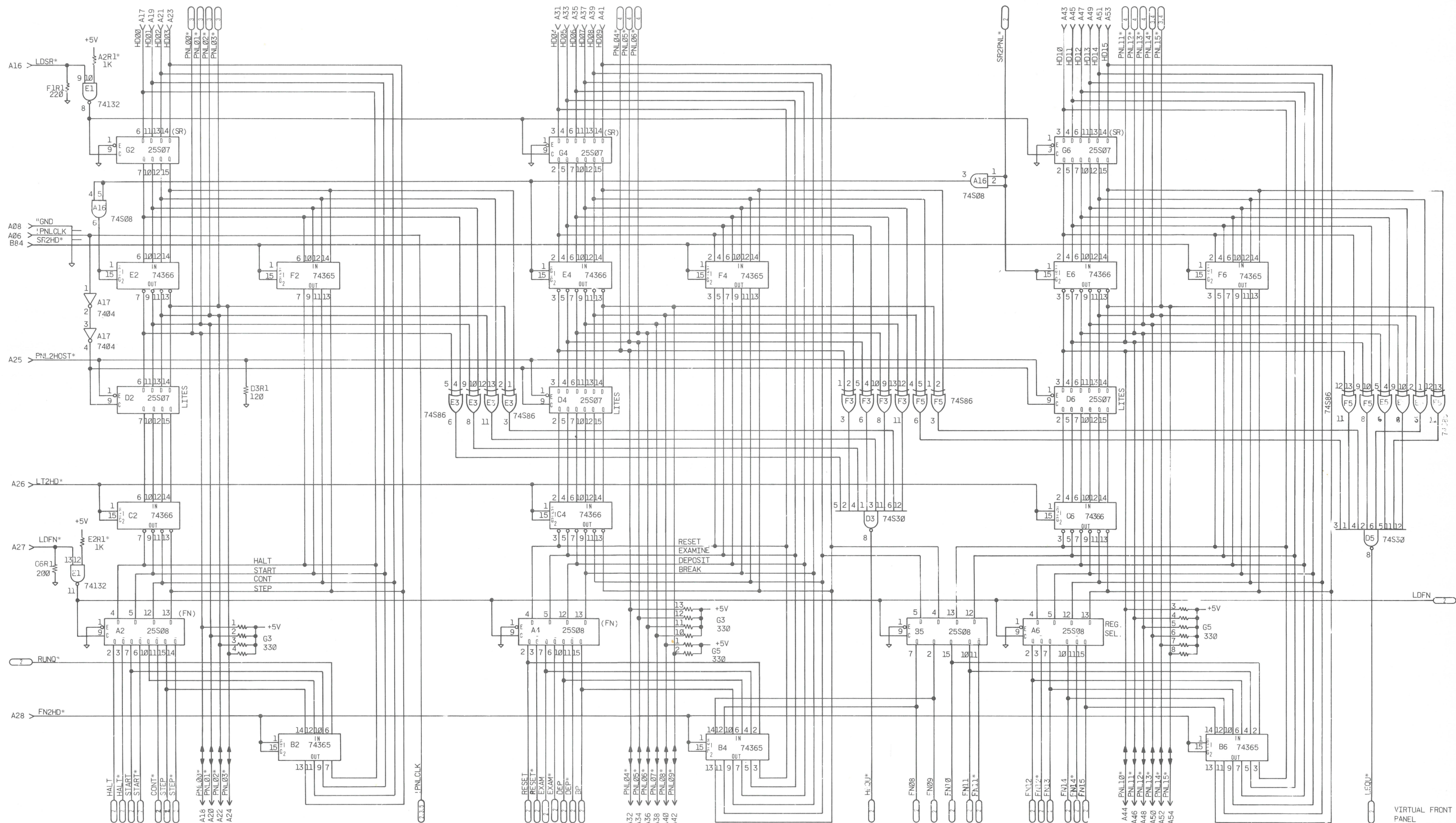
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CHK.		213-A,	
PROD. RELEASE		MAIN DATA INPUT REGISTER	
DEC. 101		M.L.	
DWG. NO.		REV.	
512-3213-000		A	

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BITS 12-23 HIGH MANTISSA



FLOATING POINT SYSTEMS, INC.
PO BOX 23489 PORTLAND, OR 97223



REVISIONS				
REV	AUTH	DESCRIPTION	ZONE	APVD DATE
E	ECO 81565	REMOVE MODS ADDED ON ECO 81492		Dec 12/80

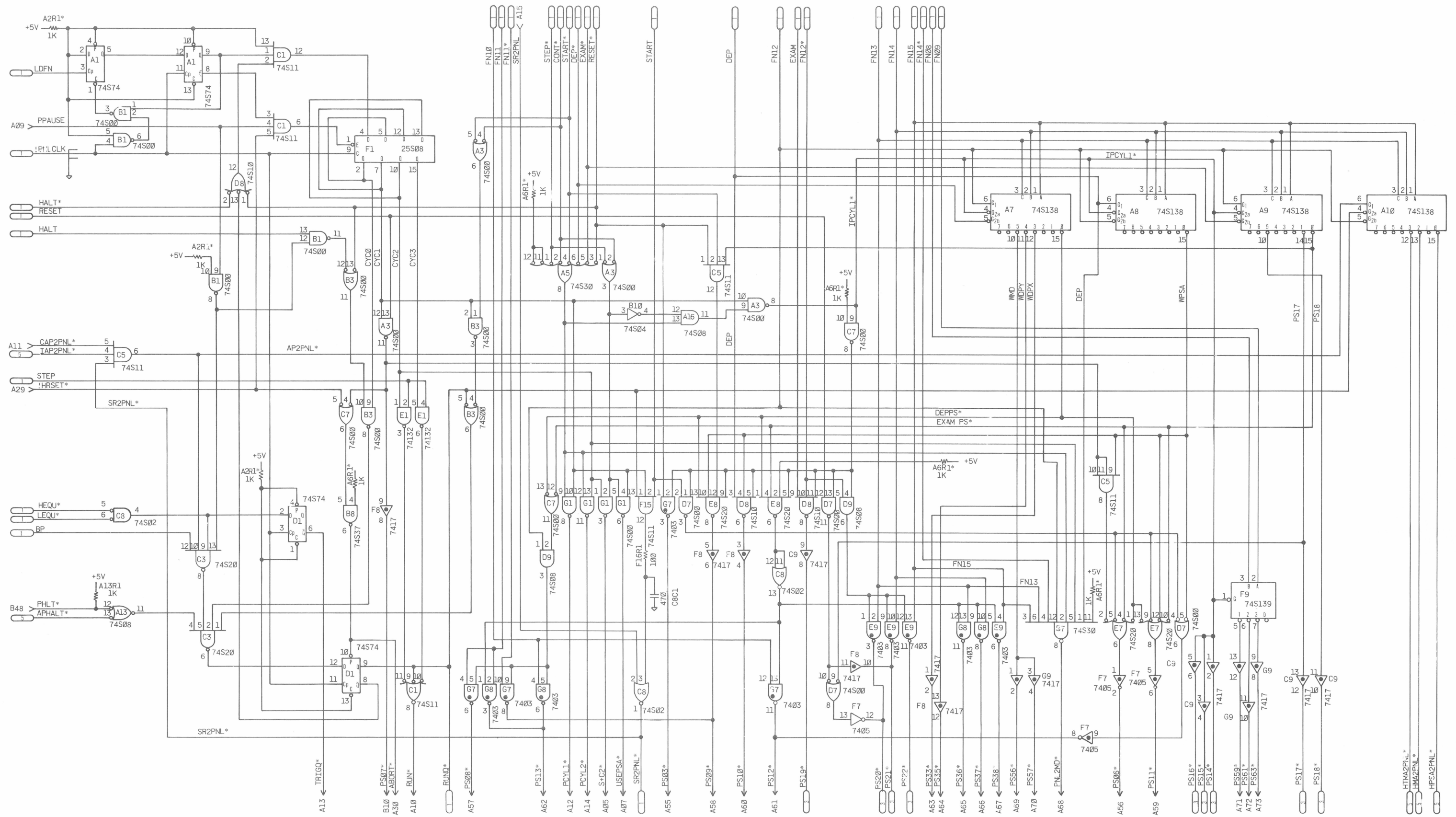
REVISIONS				
REV	AUTH	DESCRIPTION	ZONE	APVD DATE
A	ECO 79374	LEVEL 3 RELEASE		Dec 8/80
B	ECO 79704	RECORD CHANGE		Dec 11/80
C	ECO 81065	CHANGED VALUE OF G3 AND G5 FROM 1K TO 330 OHMS		Dec 13/80
D	ECO 81492	HARDWARE MODIFICATIONS		Dec 17/80

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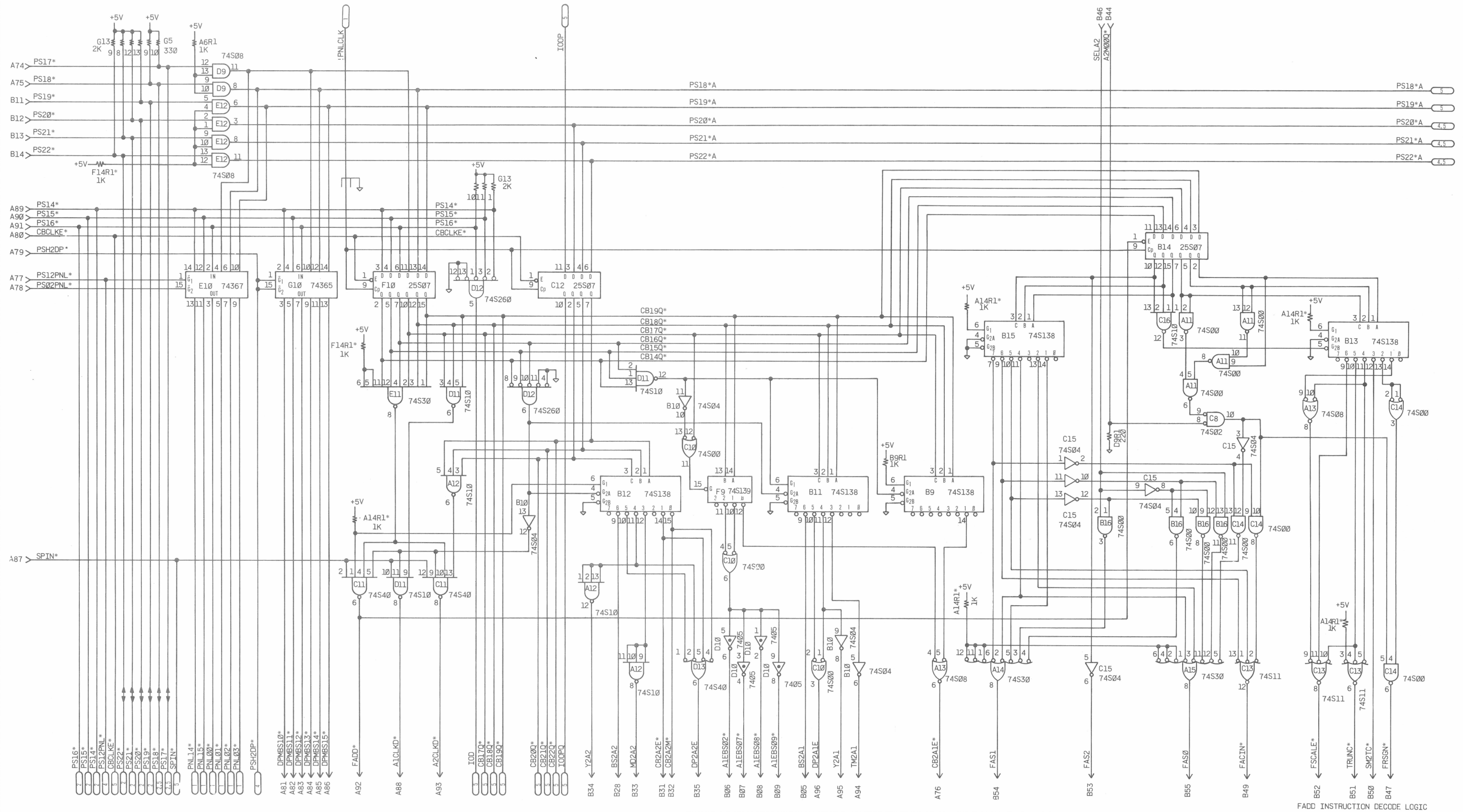
ENG. *James Young*
DRN. *January Young*
CHK. *James Young*
PROD. RELEASE *James Young*
DEC. TOL. *James Young*

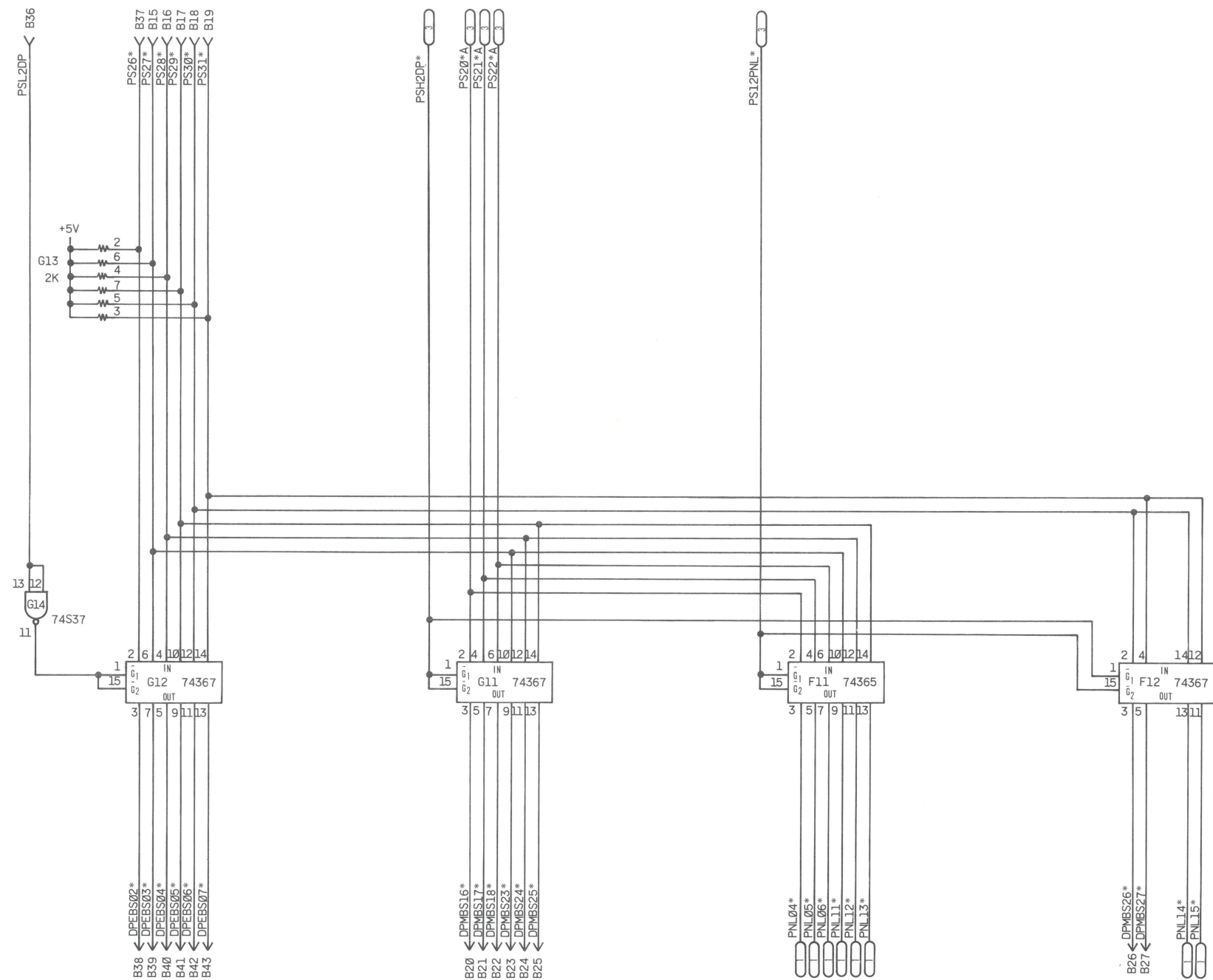
TITLE
SCHEMATIC, ECB,
214-C,
EXPANSION BOARD
DWG. NO. 512-3214-003
PAGE 1 OF 5
REV E
FLOATING POINT SYSTEMS, INC.
P.O. BOX 23489 PORTLAND, OR 97223

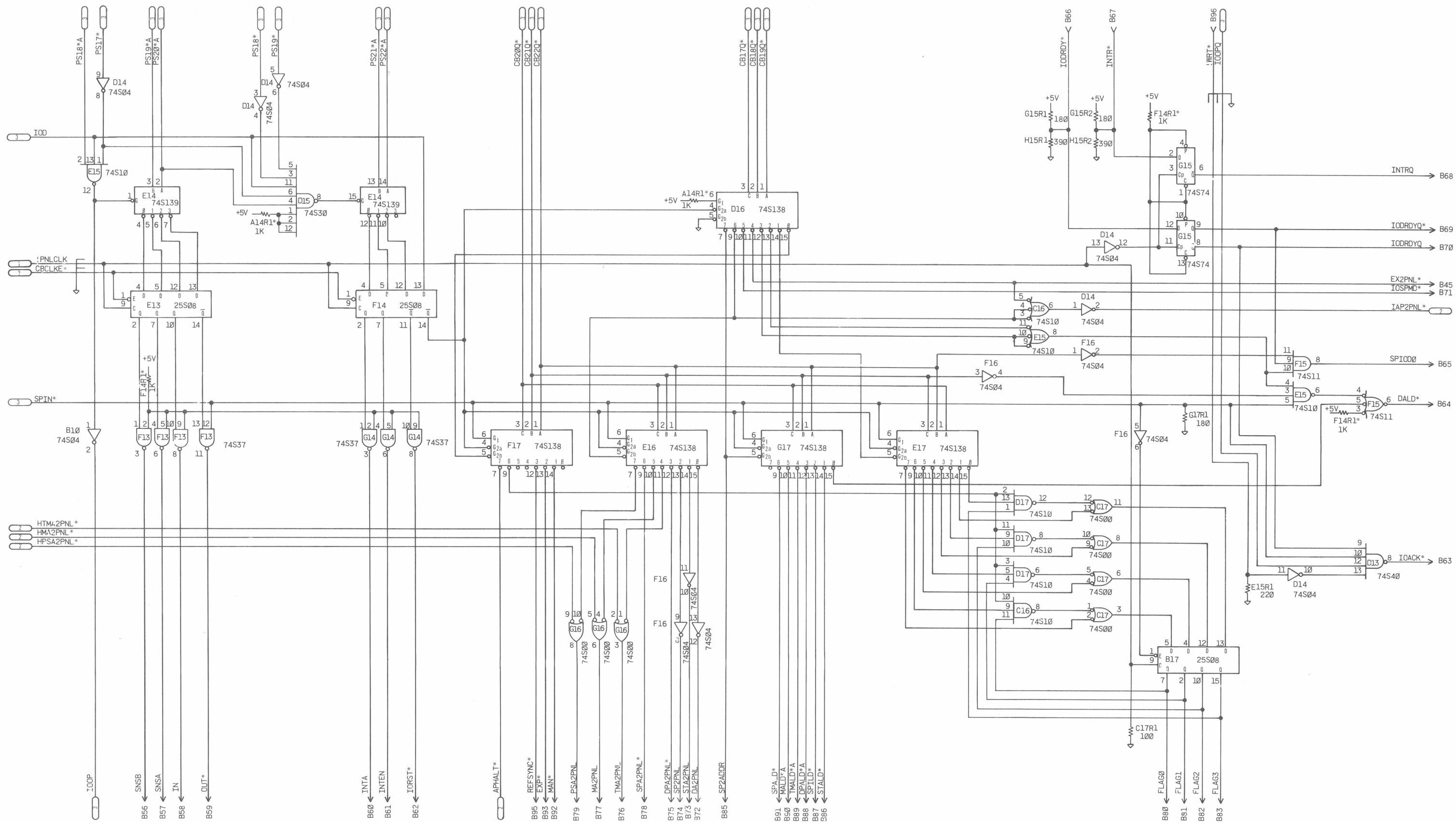


PANEL TIMING MICRO INSTRUCTION

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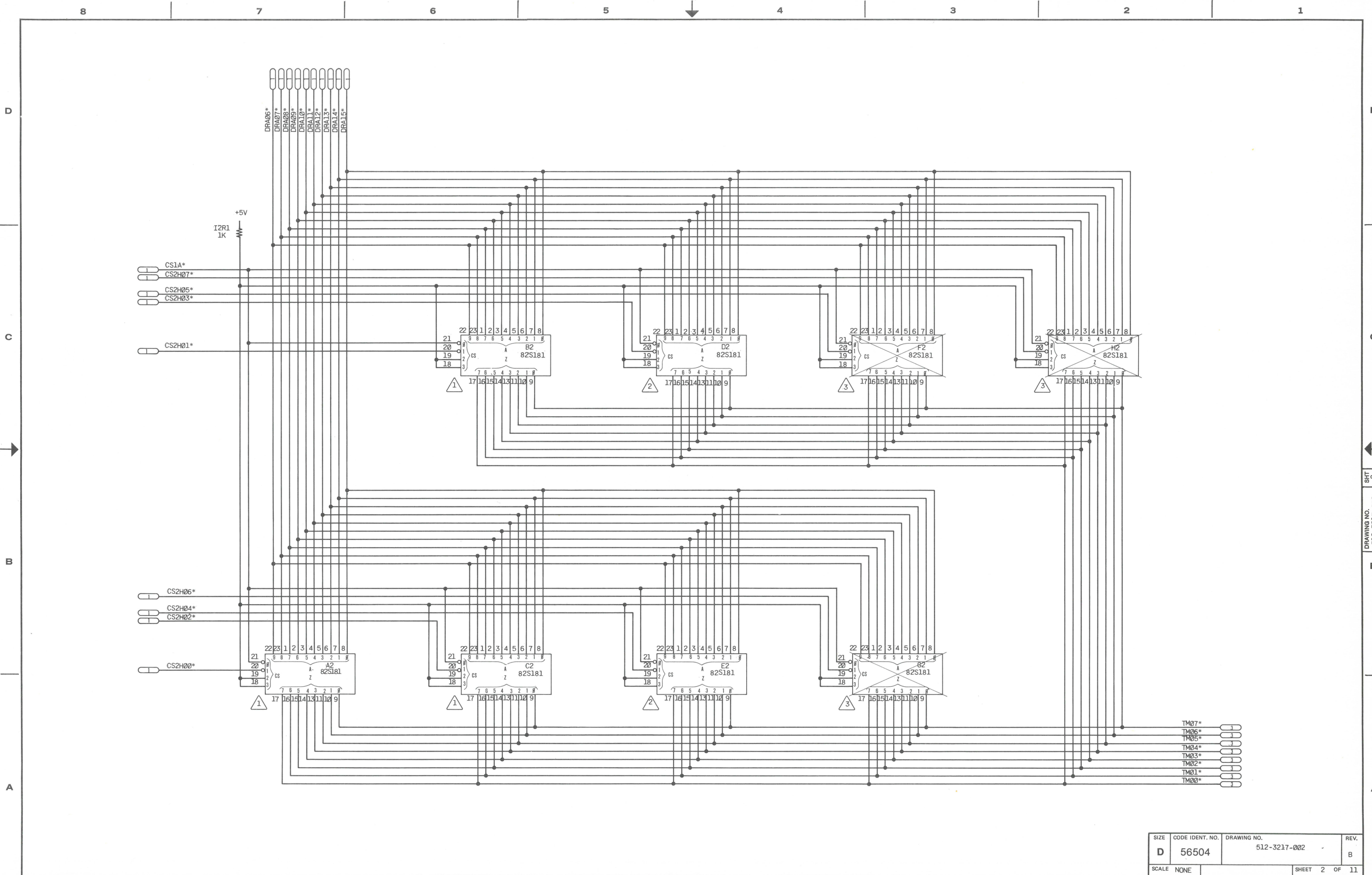


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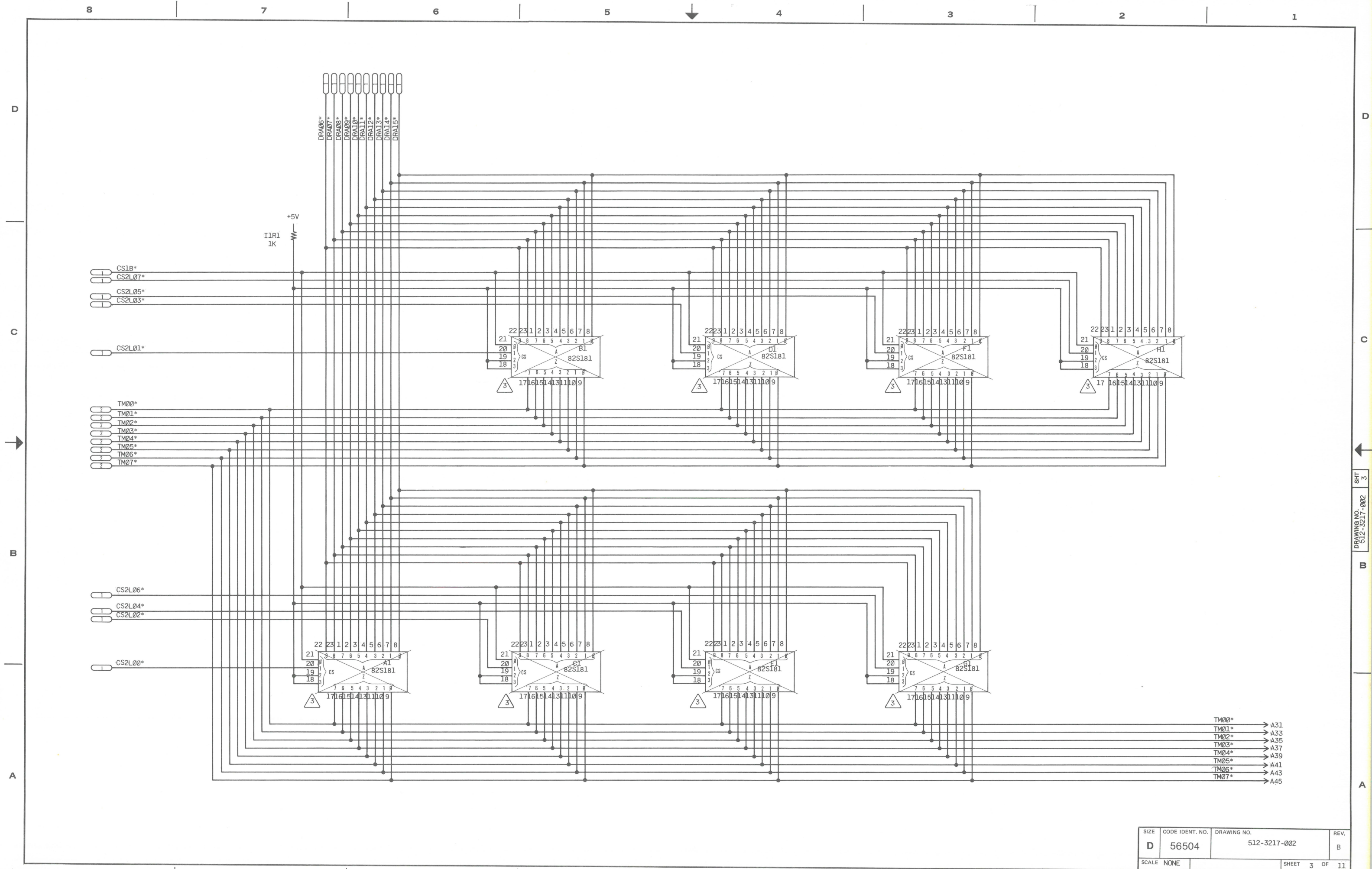
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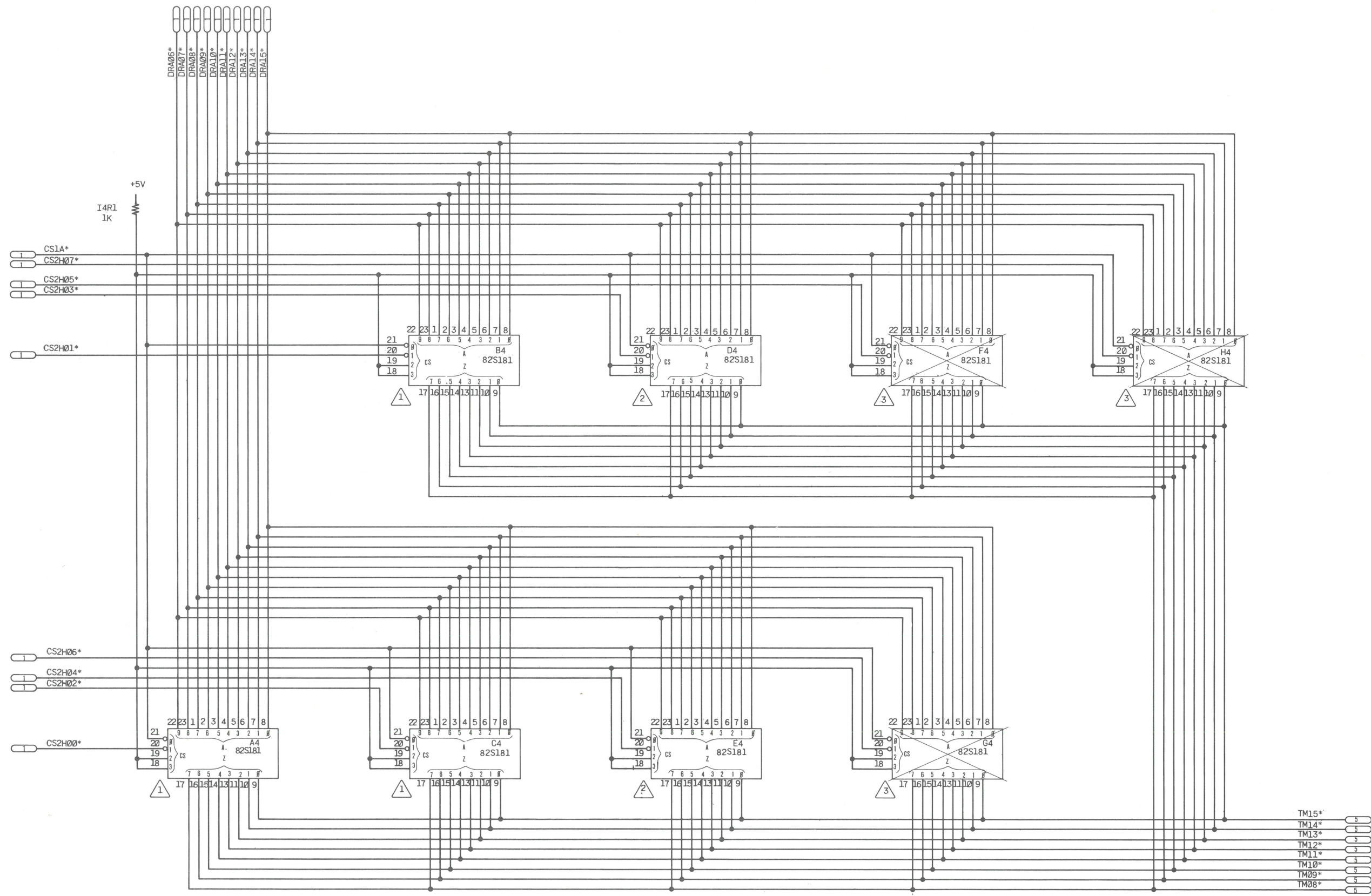
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DRN. <i>Sammy Young, 11-28-77</i>	SCHEMATIC, ECB, 214-C, EXPANSION BOARD	
CHK.		
PROD. RELEASE	M.L.	
DEC. TEL.	DWG. NO. 512-3214-003	PAGE 5 OF 5

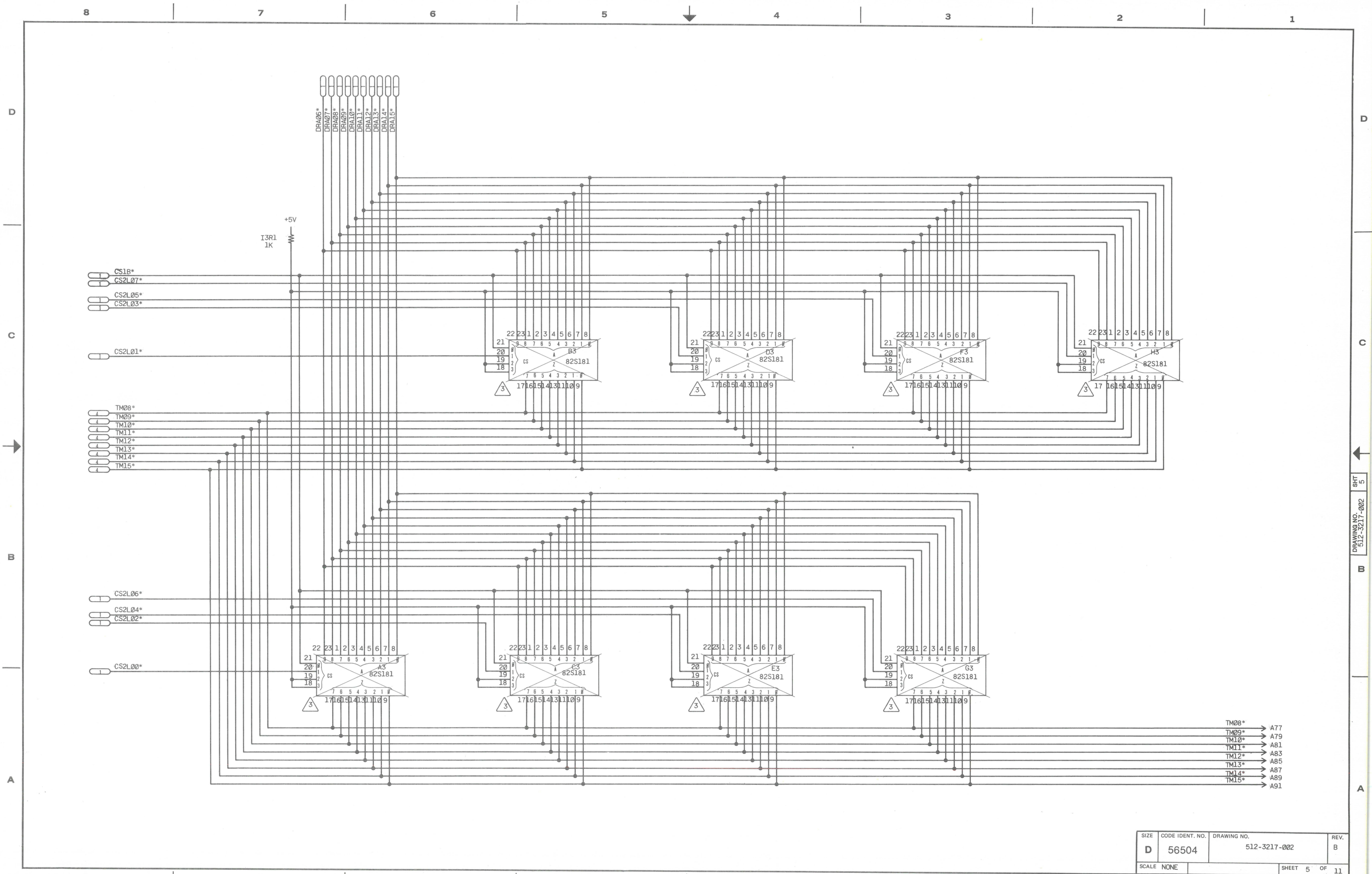


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SCALE	NONE	SHEET 2 OF 11	



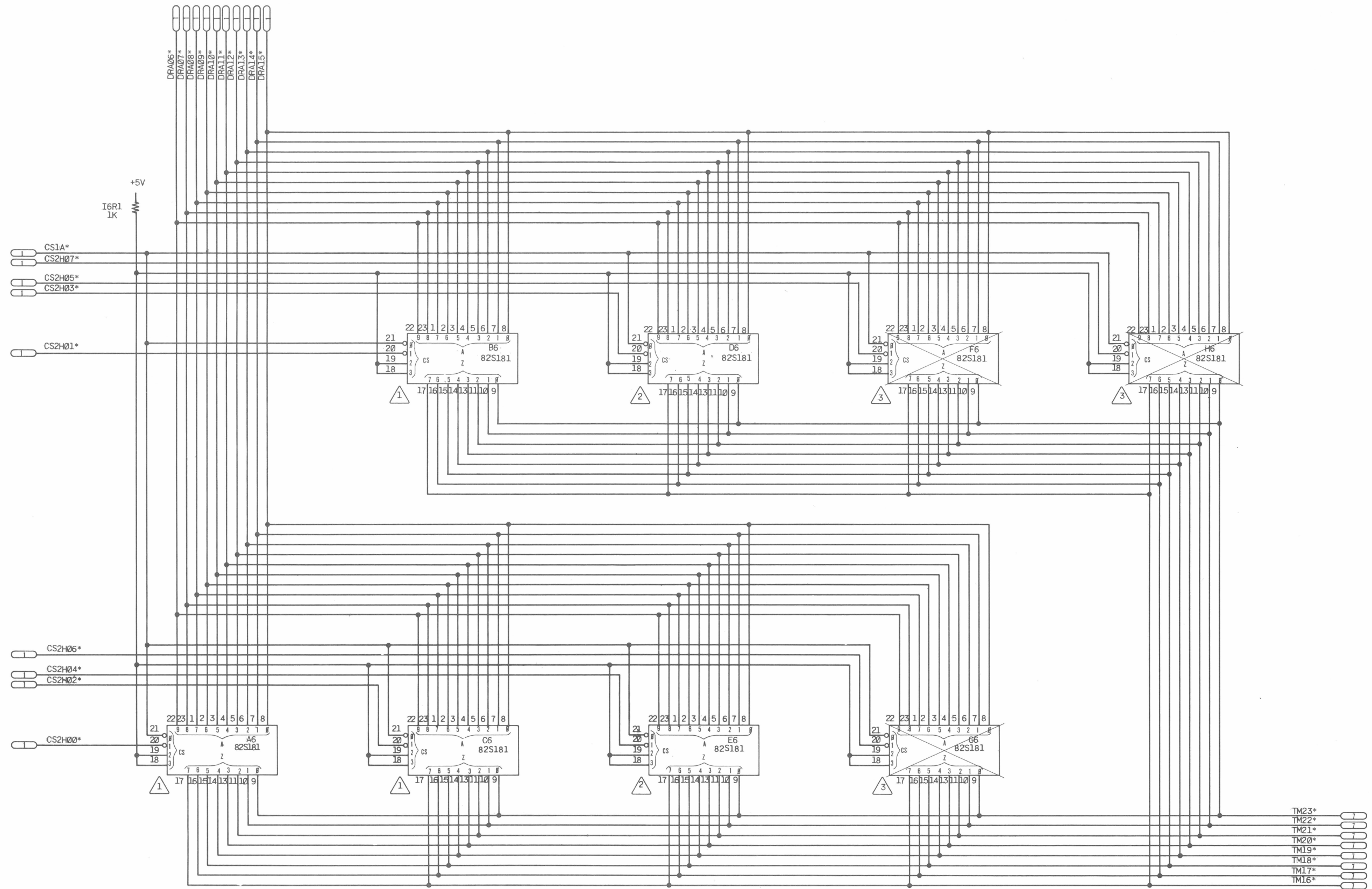


BITS 08-15			
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SCALE	NONE	SHEET 4 OF 11	



TM08* → A77
TM09* → A79
TM10* → A81
TM11* → A83
TM12* → A85
TM13* → A87
TM14* → A89
TM15* → A91

SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
D	56504	512-3217-002	B
SCALE	NONE	SHEET 5 OF 11	



SIZE	CODE IDENT. NO.	DRAWING NO.	REV.
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SCALE	NONE	SHEET 6 OF 11	

D

C

B

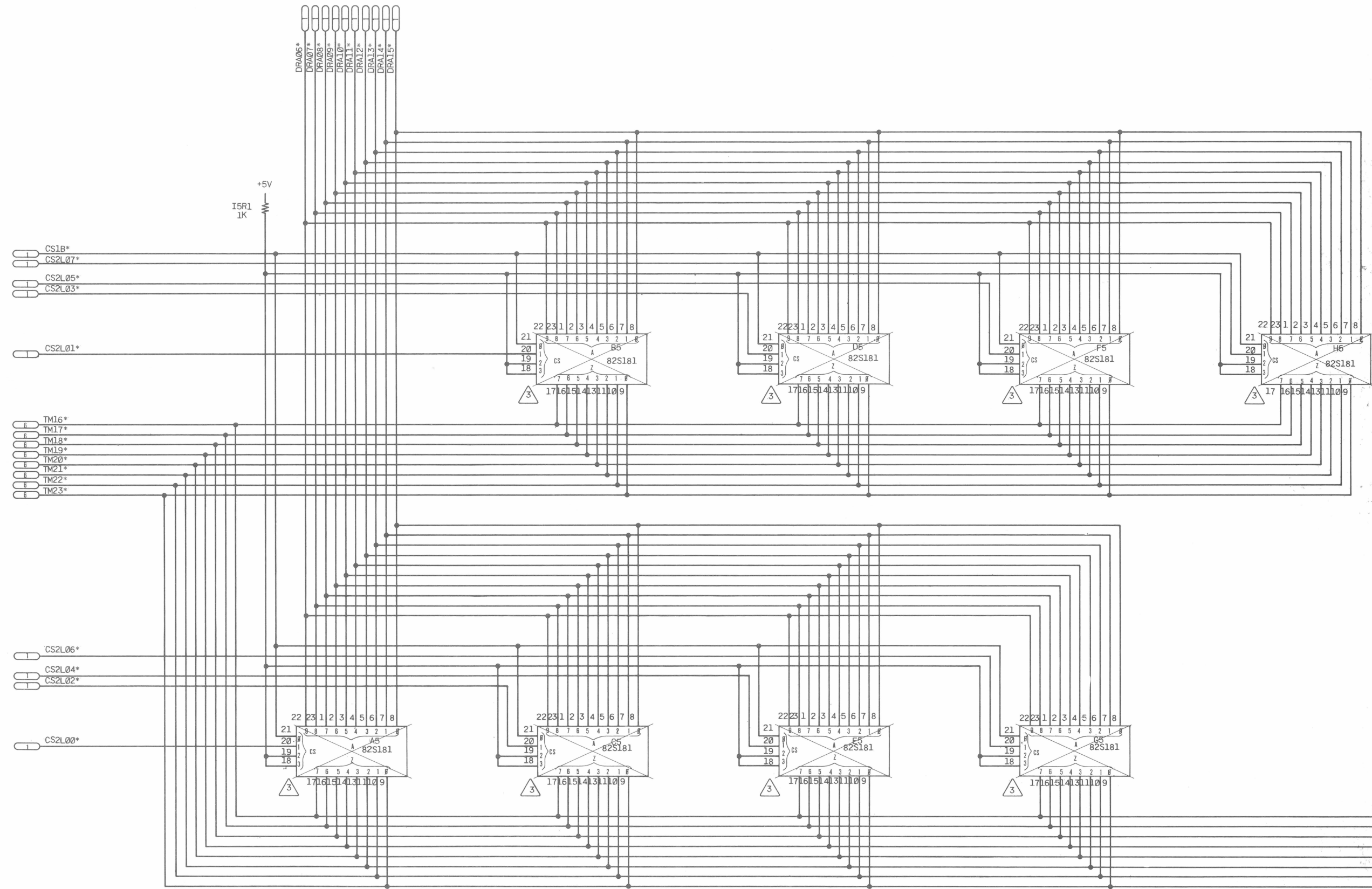
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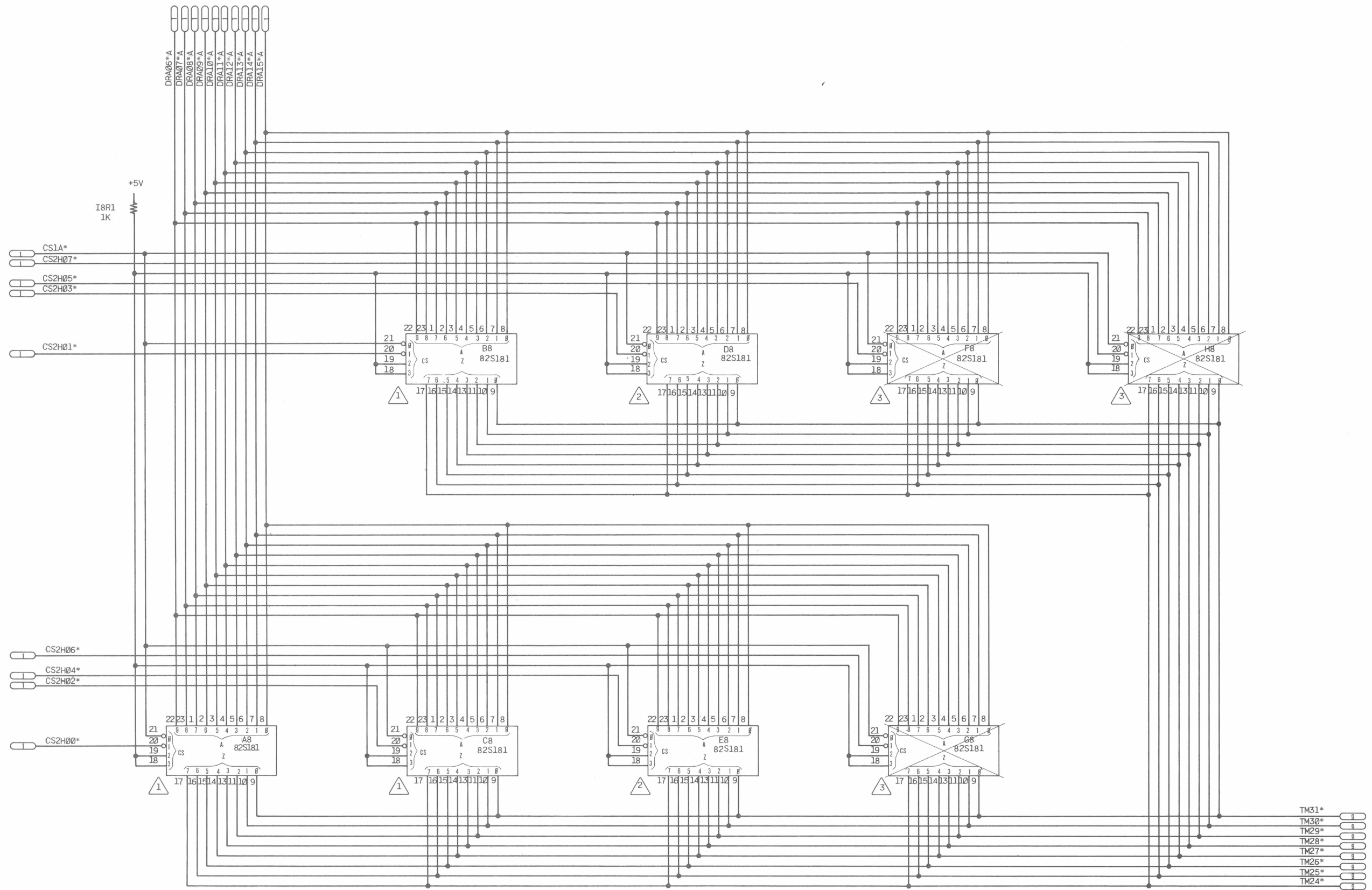
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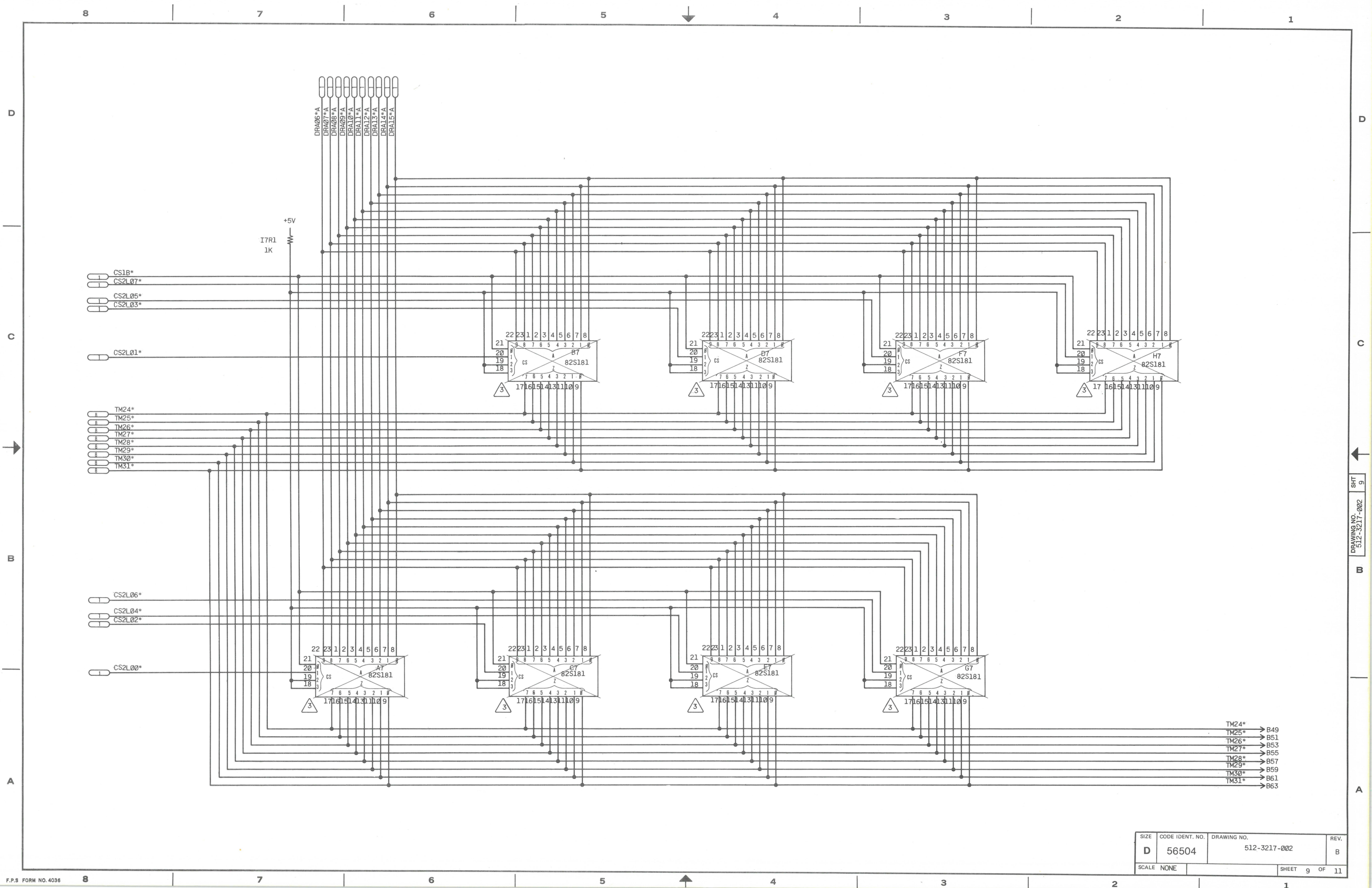
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TM16* → B05
TM17* → B07
TM18* → B09
TM19* → B11
TM20* → B13
TM21* → B15
TM22* → B17
TM23* → B19

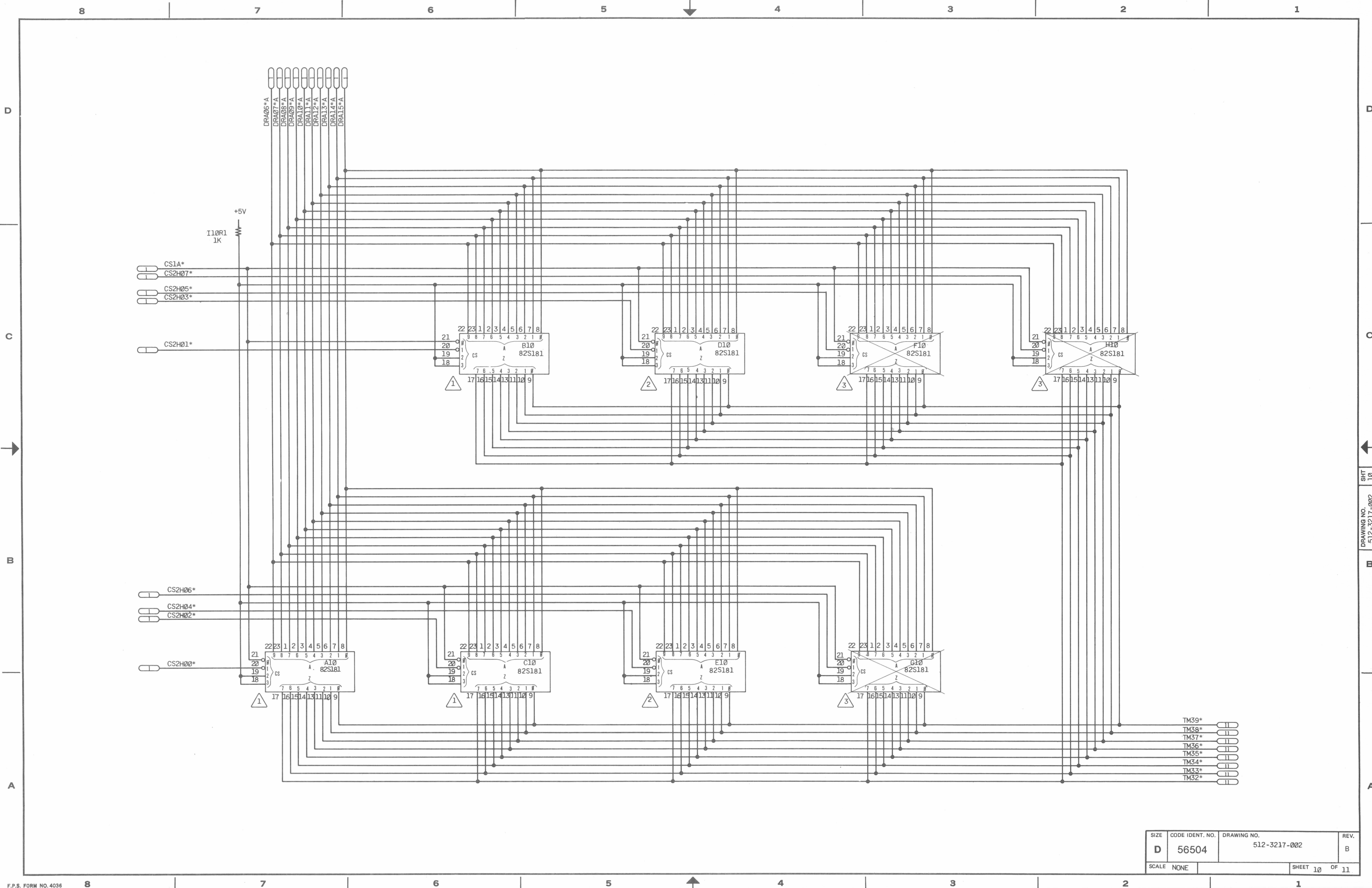
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SCALE NONE		SHEET 7 OF 11	

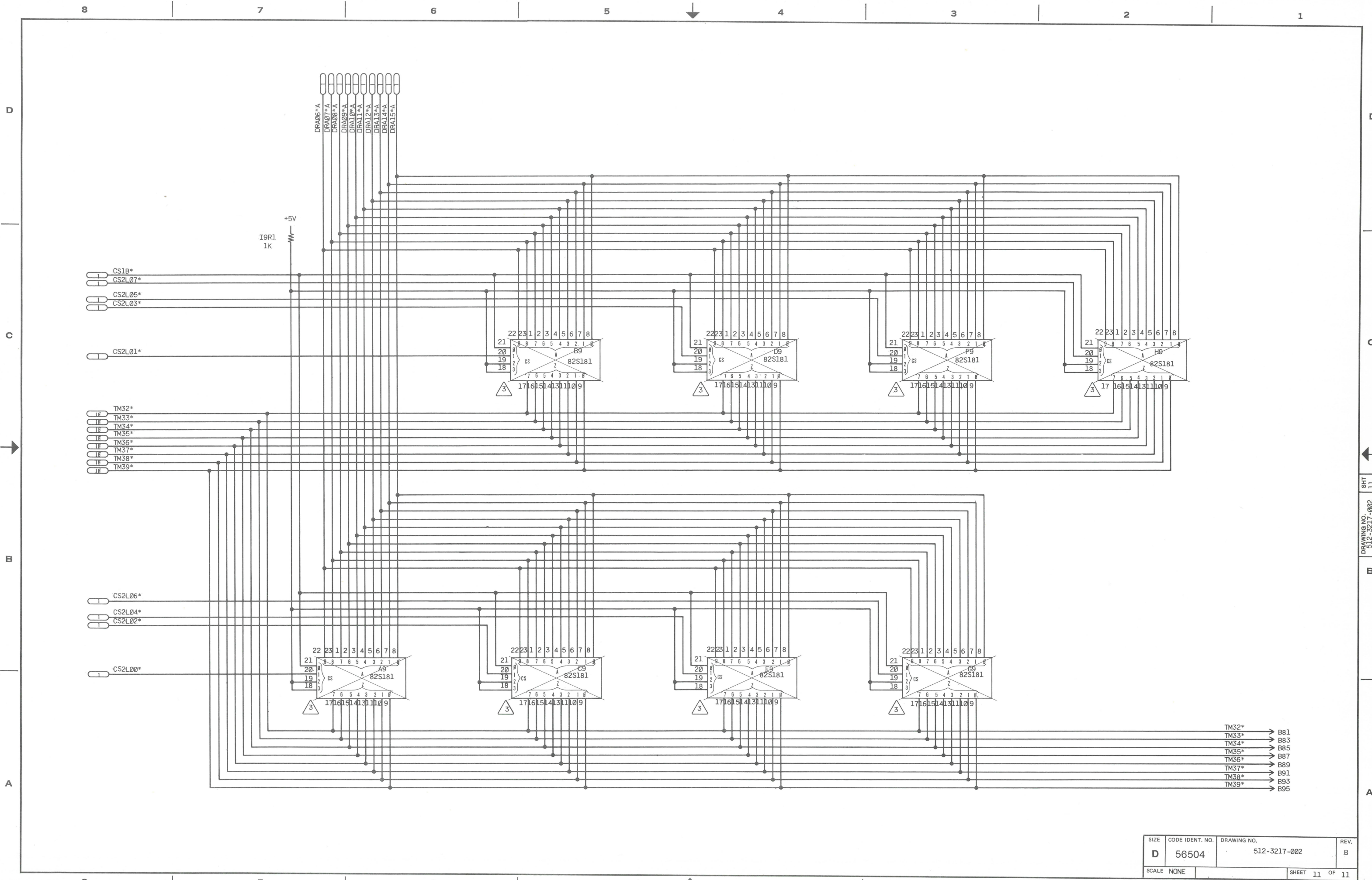


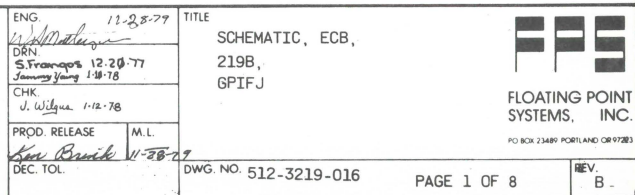


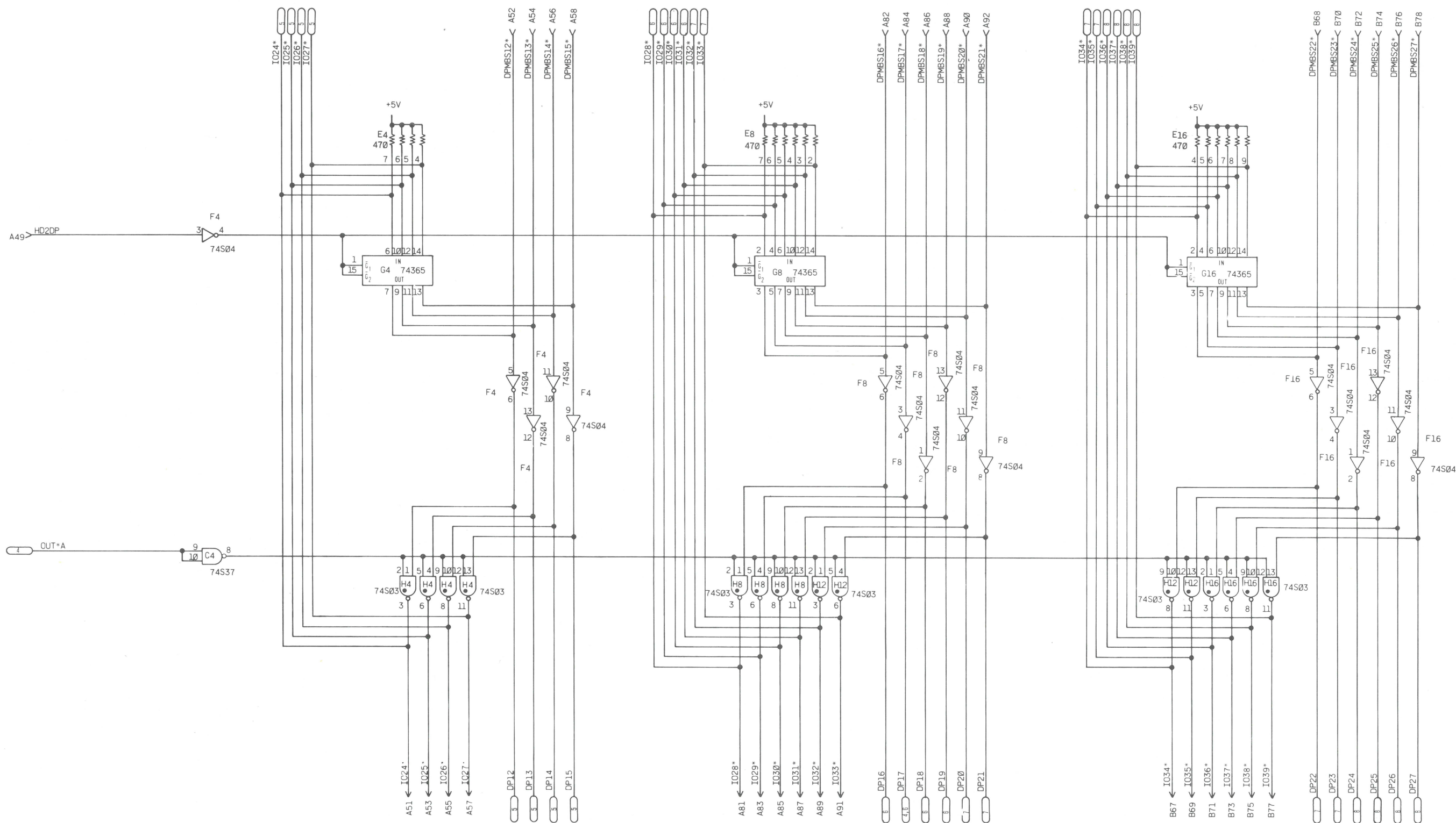
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TM29* → B59
TM30* → B61
TM31* → B63

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SCALE	NONE	SHEET 9 OF 11	









I/O TRANSCEIVER

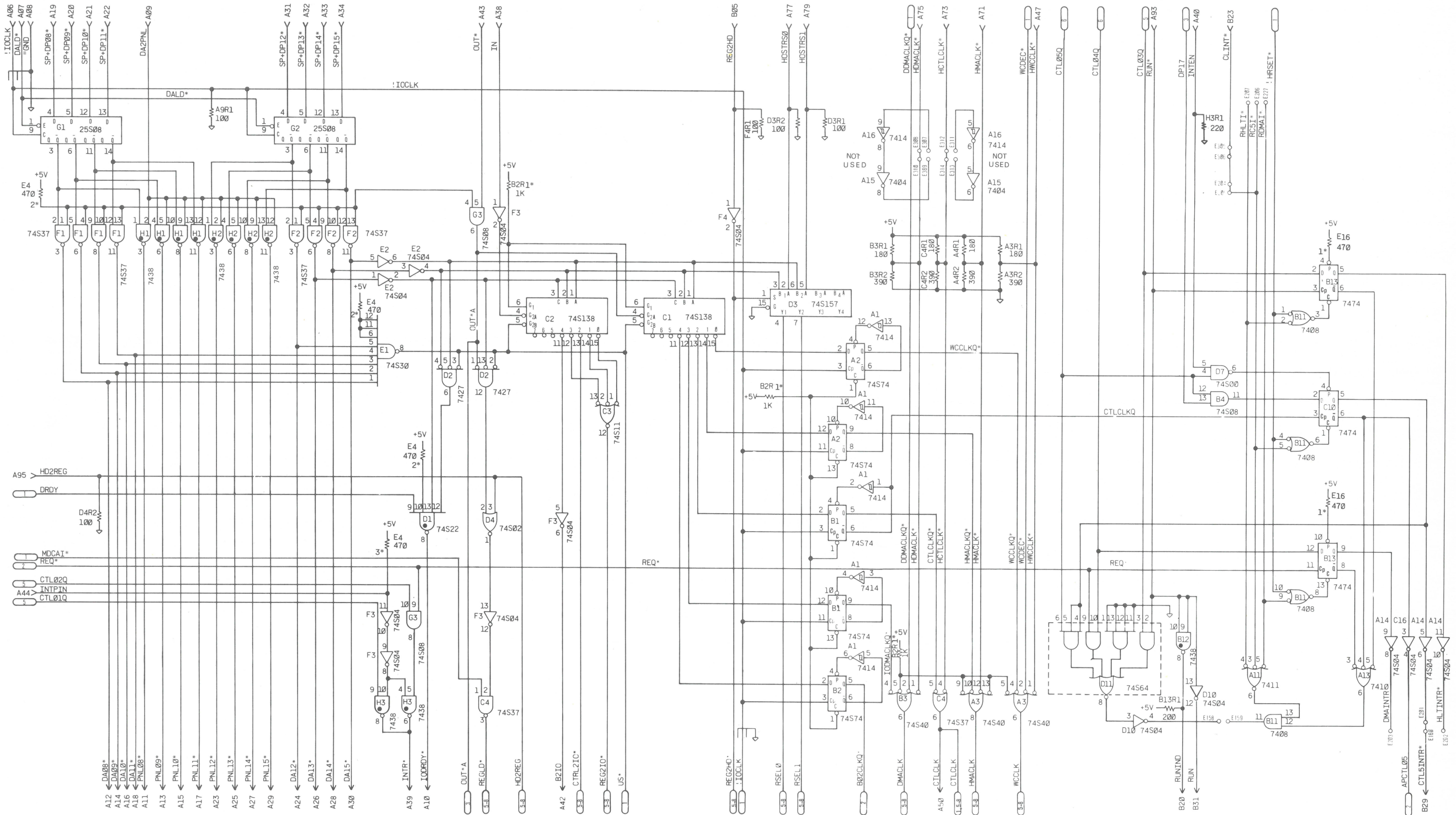
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ENG
DRN
CHK
PROD RELEASE
DEC 101

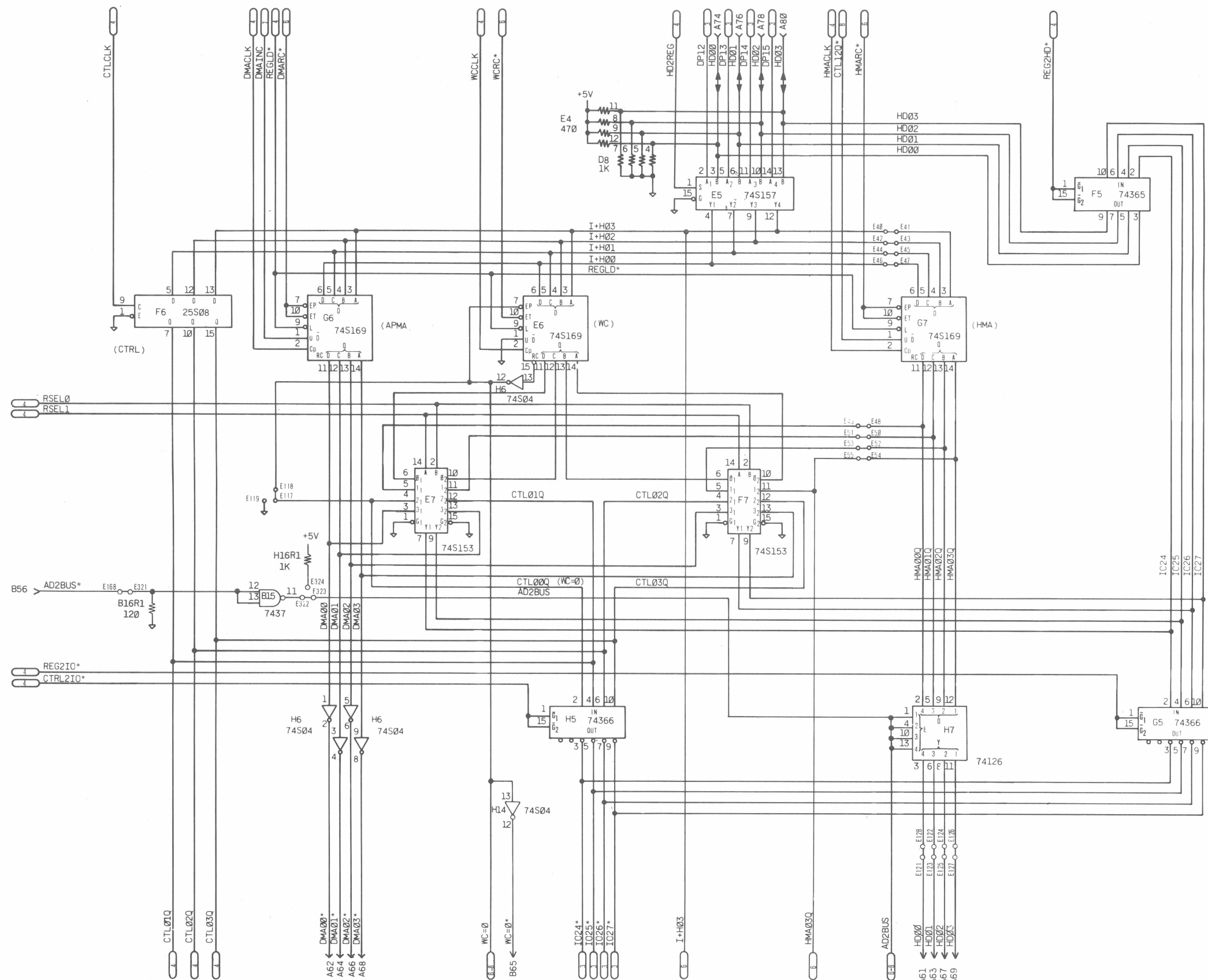
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219B,
GP1FJ
DWG. NO. 512-3219-016
PAGE 3 OF 8
REV. B



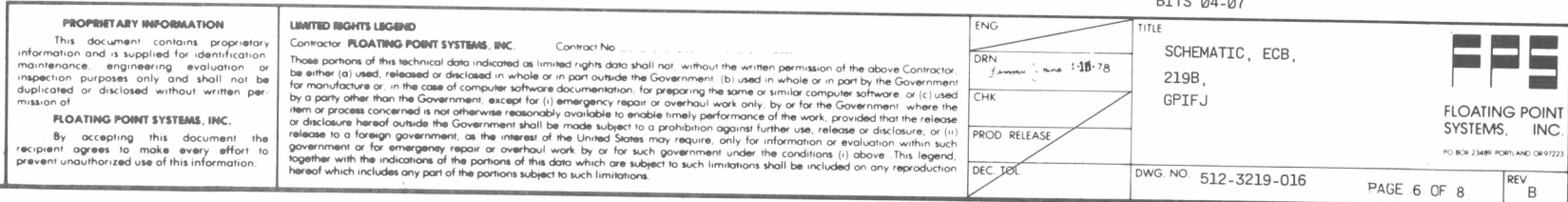


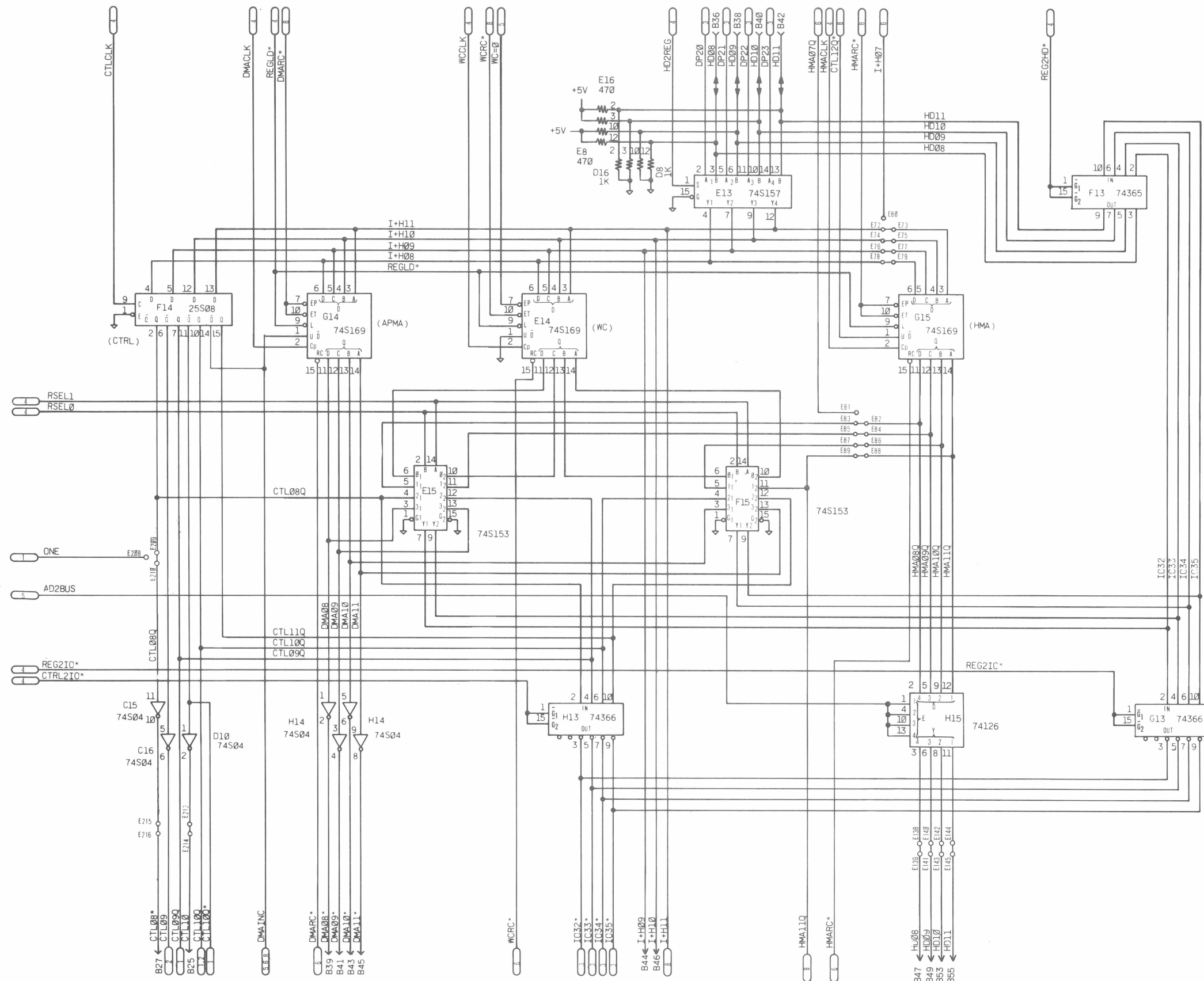
DEVICE ADDRESS REGISTER AND I/O DECODE

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CTRL			
00	01	02	03
WC=0	INTR AP	IAP WC	IH HALT





CTRL			
08	09	10	11
CC	AP	WRT	DEC
	DMA	HCST	APMA

BITS 08-11

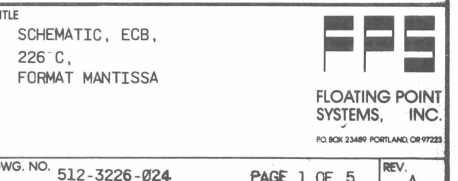
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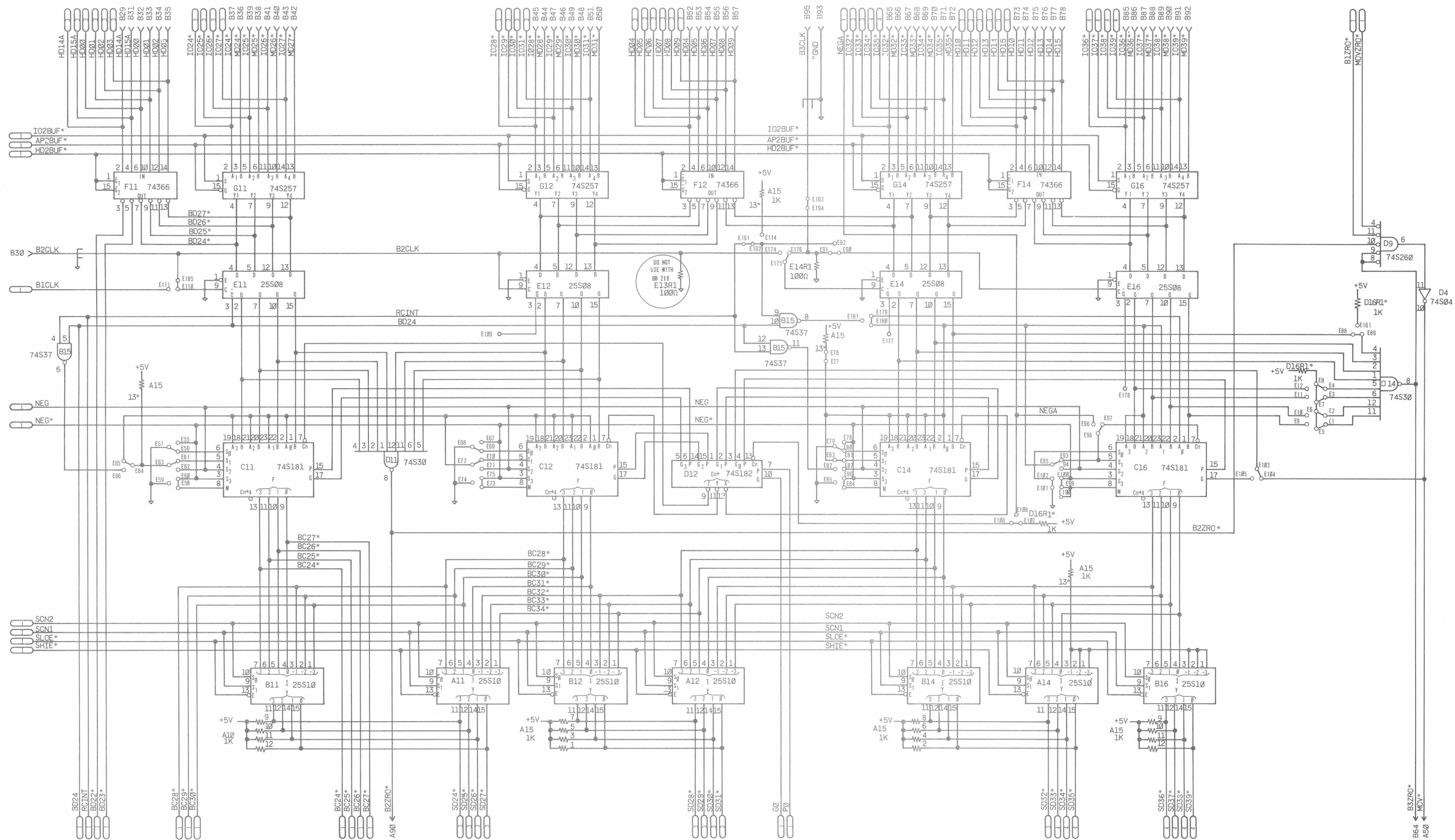


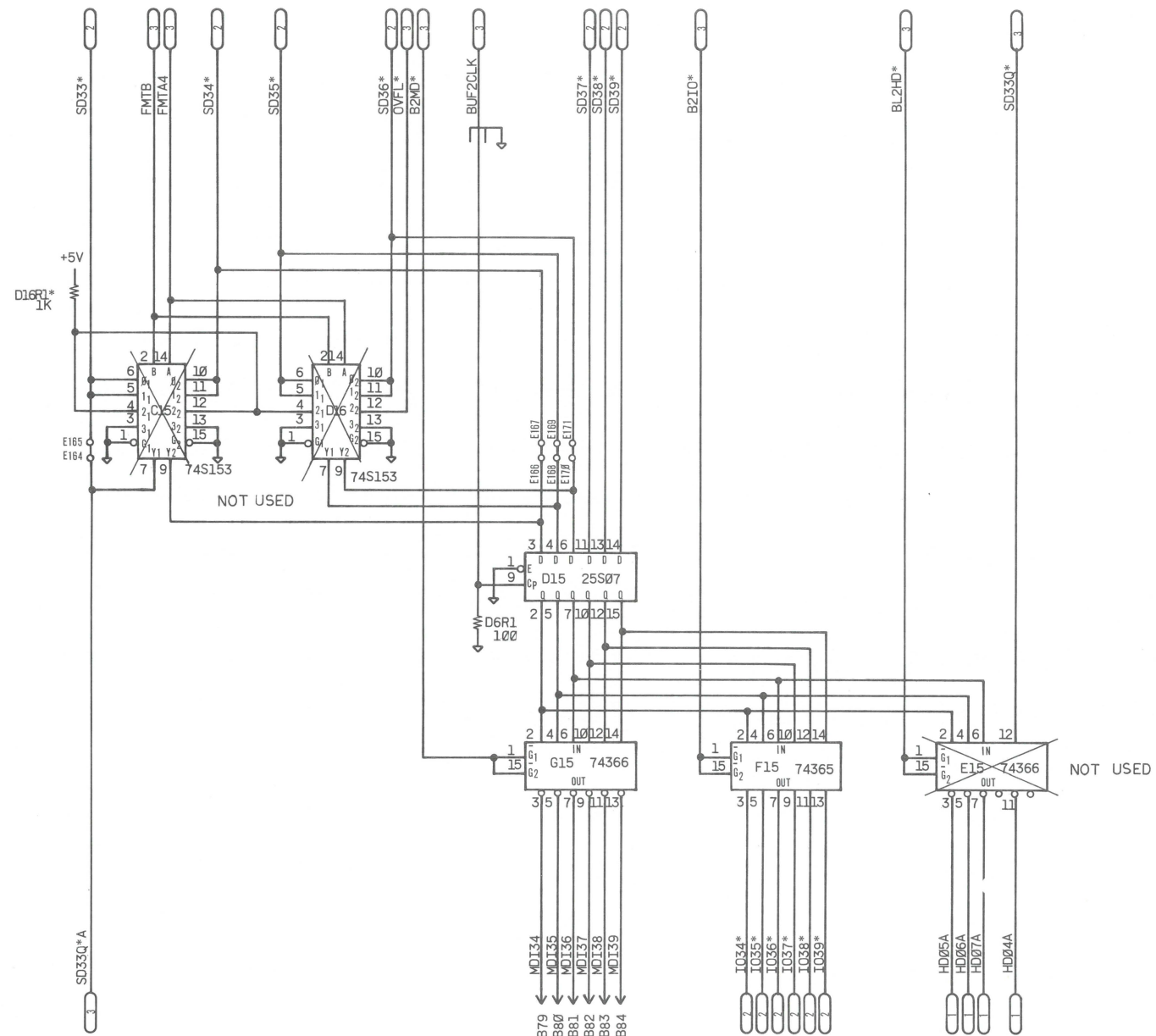
FLOATING POINT
SYSTEMS, INC.
PO BOX 21489 PORTLAND OR 97221

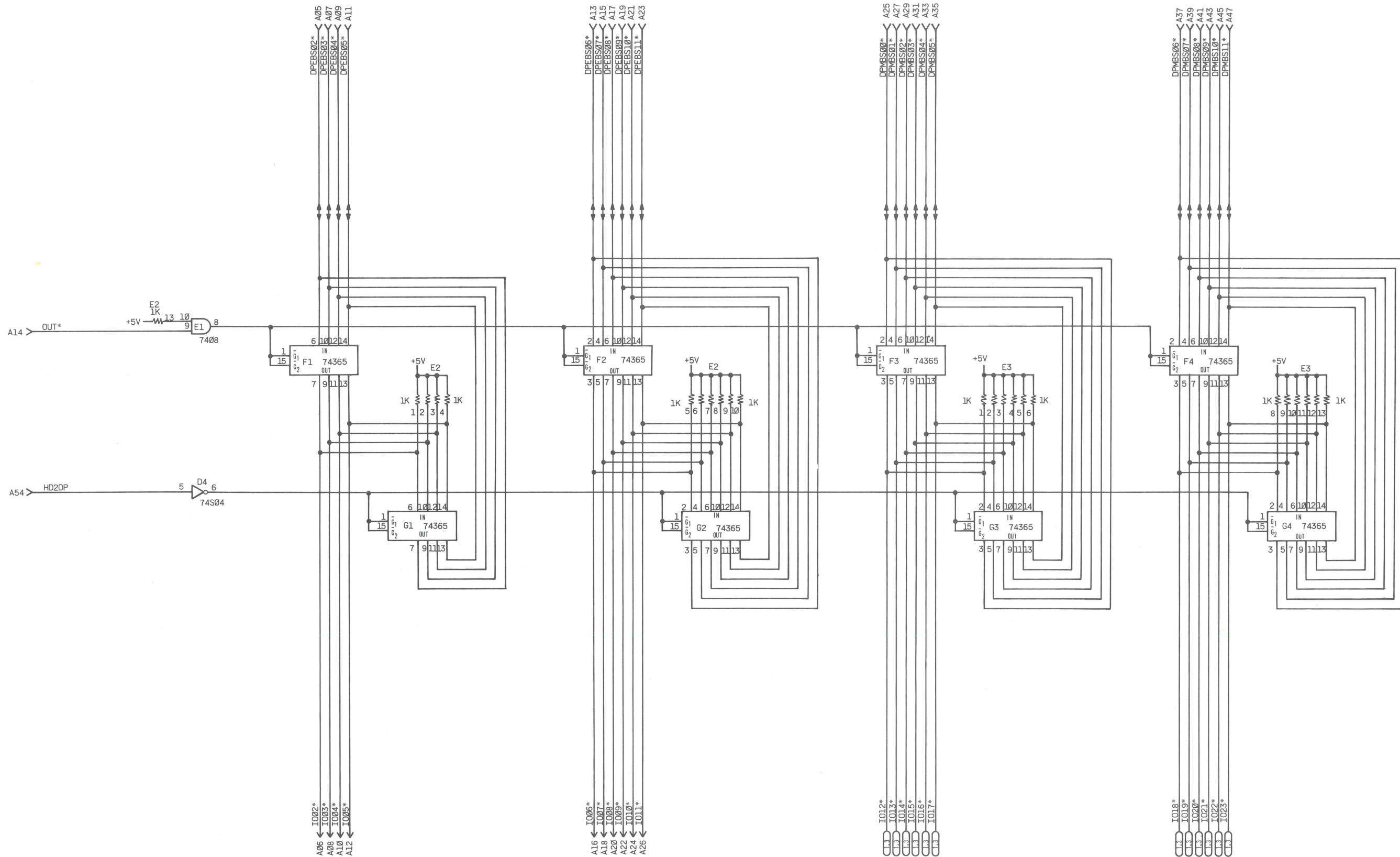


PO BOX 23489 PORTLAND OR 972

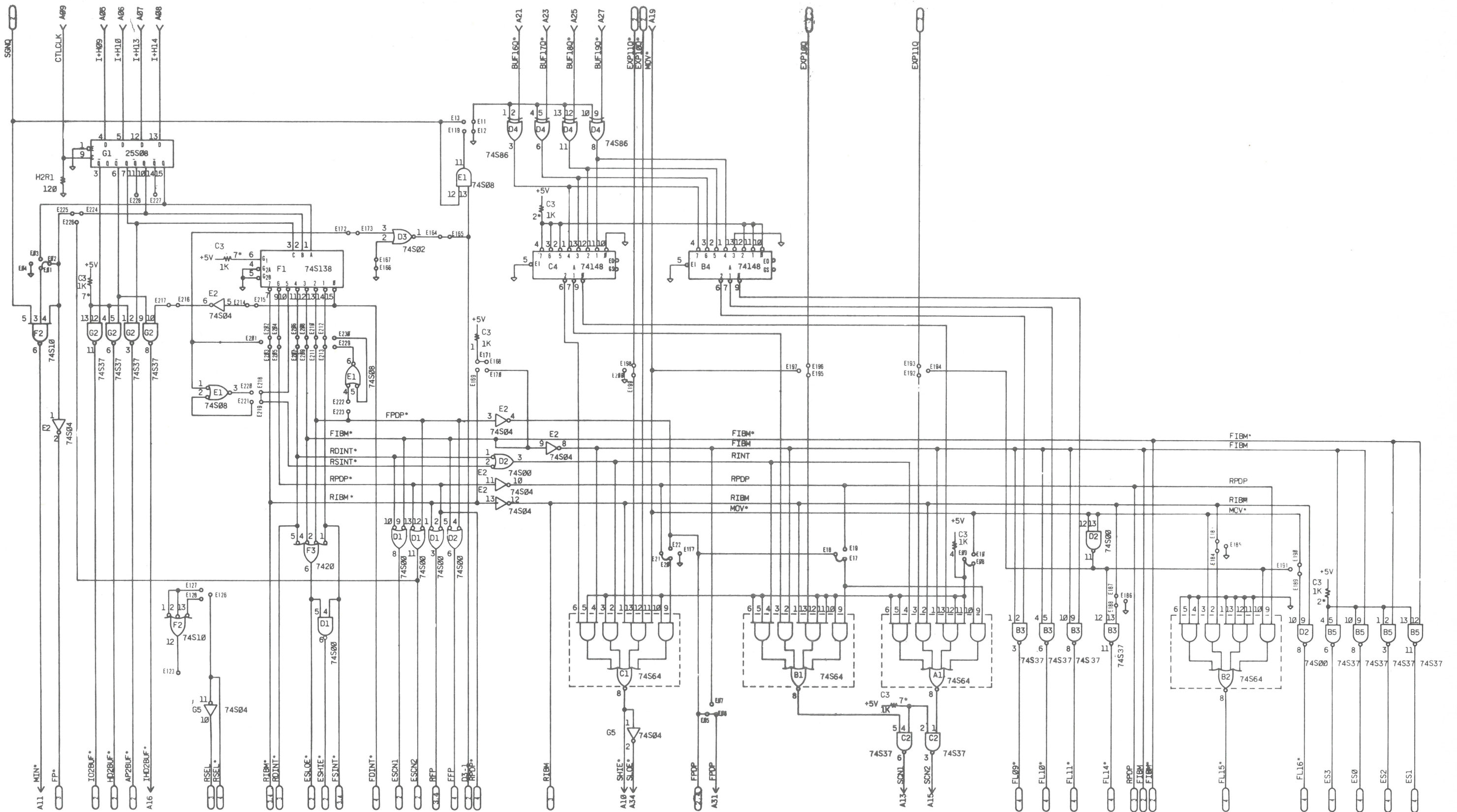








PO BOX 23489 PORTLAND OR 97223



REVISIONS					
REV	AUTH	DESCRIPTION	ZONE	APVD/DATE	CHK/DATE
A	ECO 79530	LEVEL 3 RELEASE		11/16/77	11-8-79

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ENG
CHK
PROD. RELEASE
DEC. TOR

FORMAT CONTROL

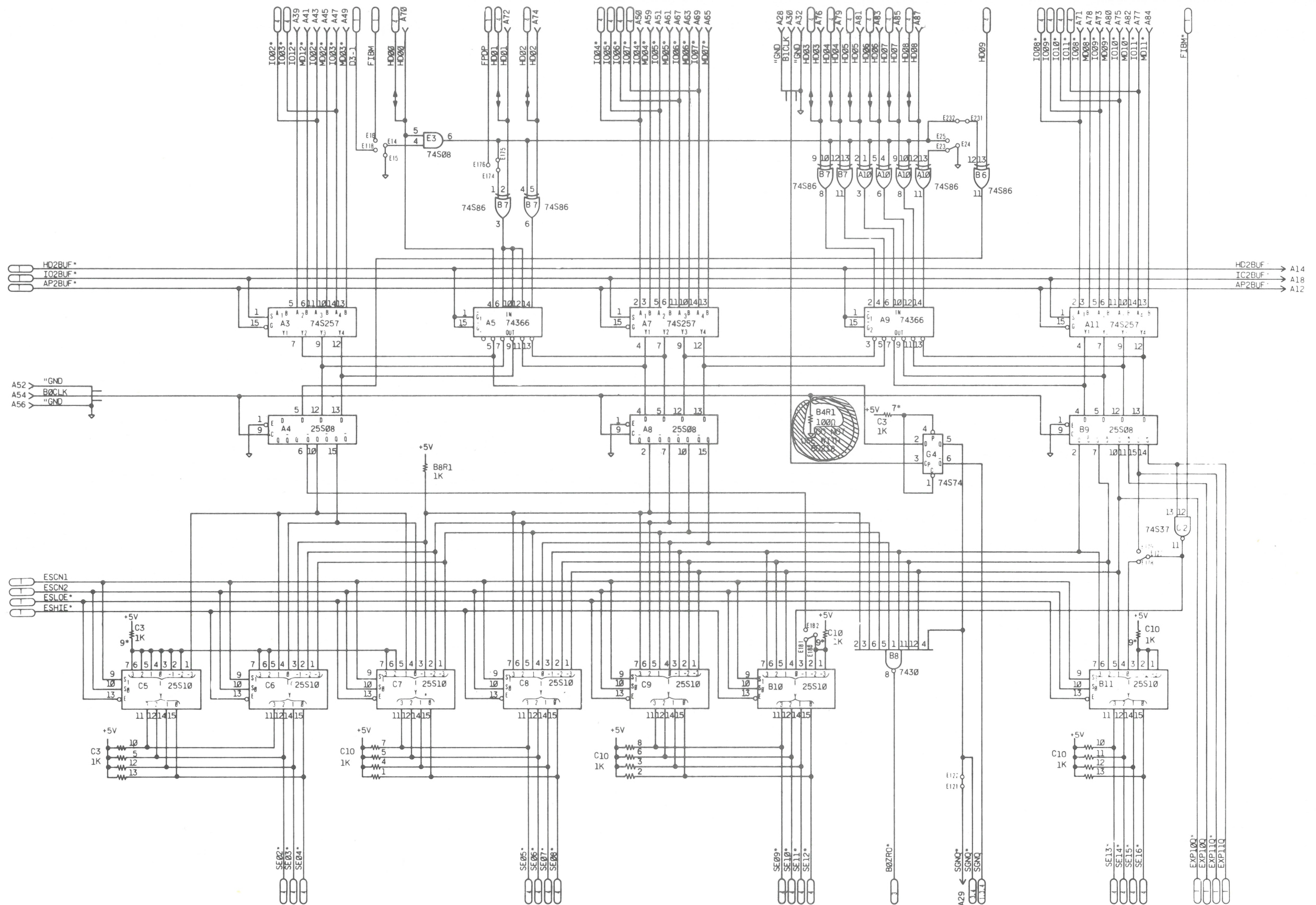
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SCHEMATIC, ECB,
227-A,
FORMAT EXPONENT (NOVA),
(WITHOUT TRANSCEIVER)

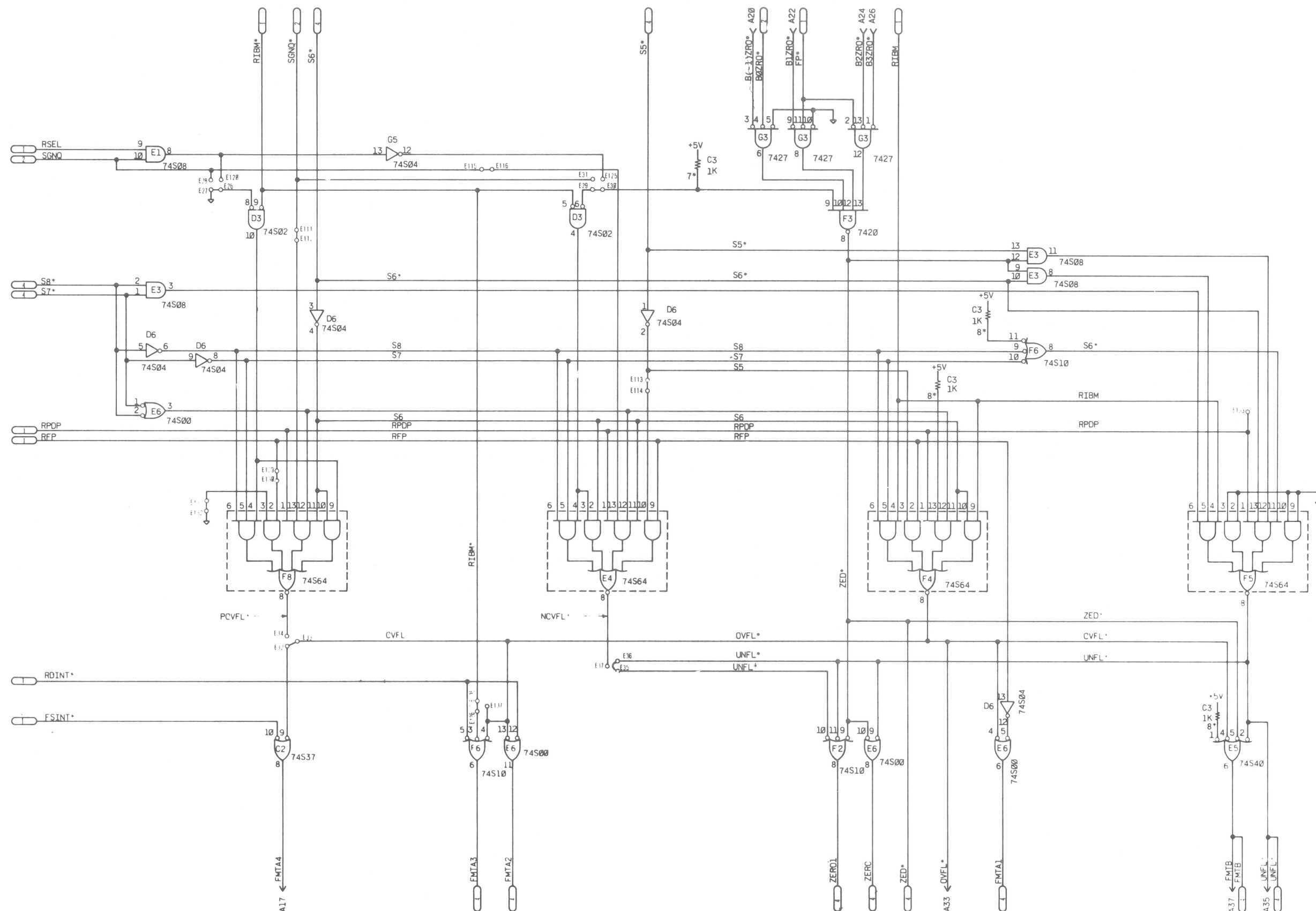
DWG. NO. 512-3227-013

PAGE 1 OF 4

REV. A

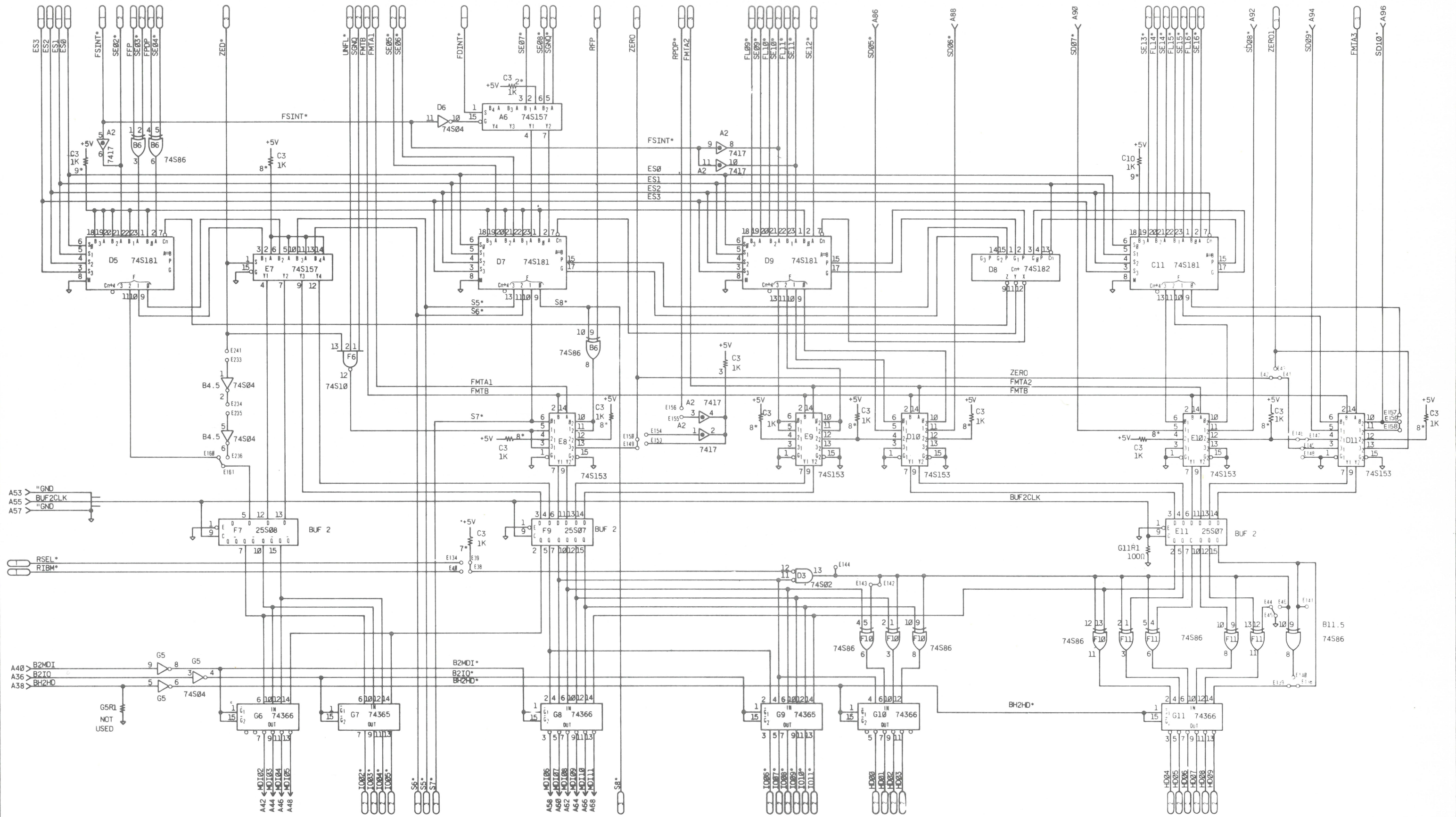
FLOATING POINT SYSTEMS, INC.
PO BOX 23400 PORTLAND OREGON 97223





FORMAT OVERFLOW/UNDERFLOW DETECT LOGIC

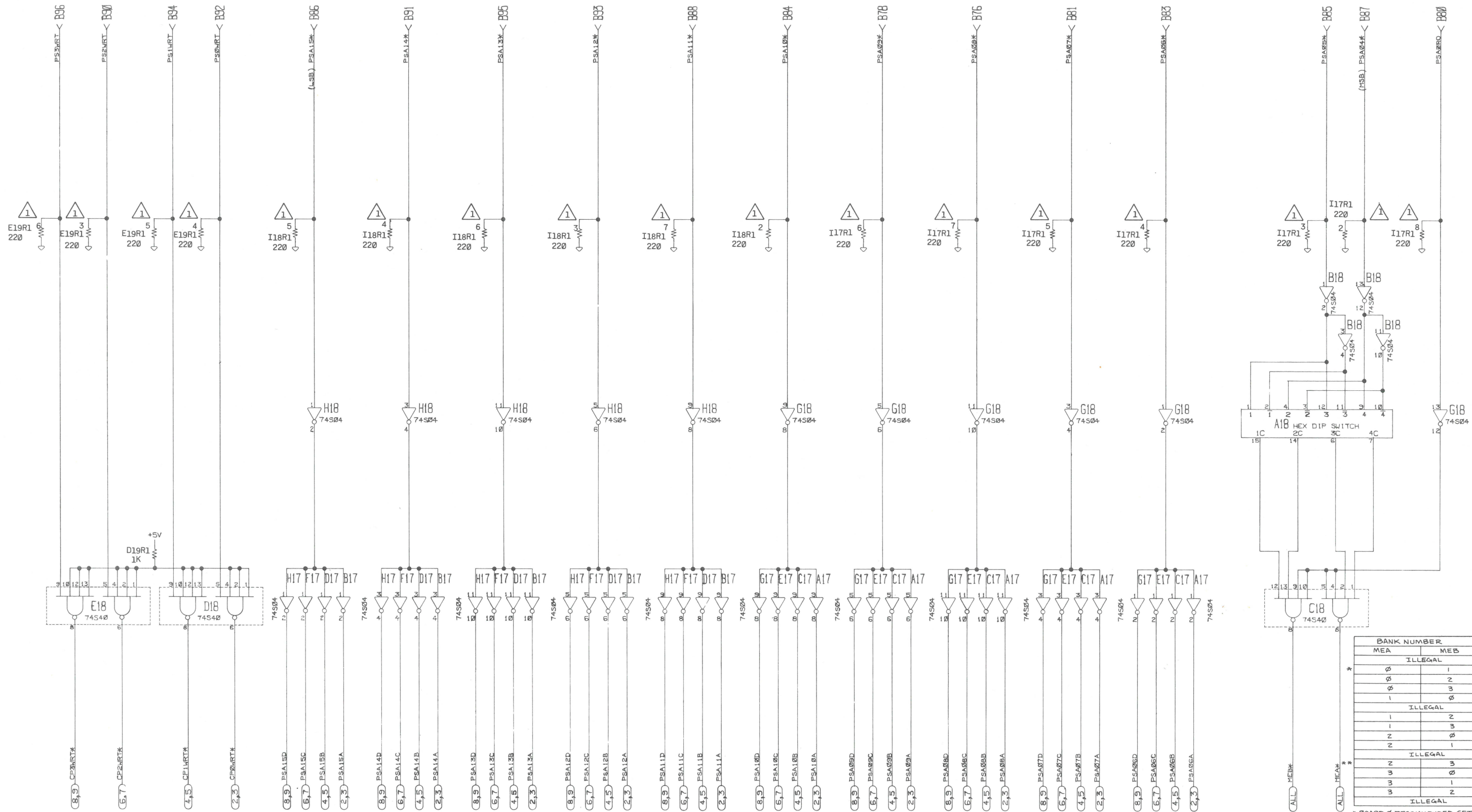
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ENG	TITLE	 FLOATING POINT SYSTEMS, INC. PL 87-133 (REV. 10-1-77) AND 08-7723
DRN	SCHEMATIC, ECB, 227-A, FORMAT EXPONENT (NOVA), (WITHOUT TRANSCEIVER)	
CHK		
PROD RELEASE	M. L.	
DEC 100	DWG NO 512-3227-013	PAGE 4 OF 4
		REV A



2. MEMORY CHIPS B1 THRU B16, D1 THRU D16, F1 THRU F16, AND H1 THRU H16, ARE STUFFED ONLY ON THE 2K BOARD SIZE.
1. 220Ω SIP RESISTOR PACKS AT E19R1, I17R1, AND I18R1 ARE STUFFED ONLY ON TERMINATED BOARDS.

NOTE: UNLESS OTHERWISE SPECIFIED:

BANK NUMBER		SWITCH SETTING
MEA	MEB	
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
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15	15	15
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17	17	17
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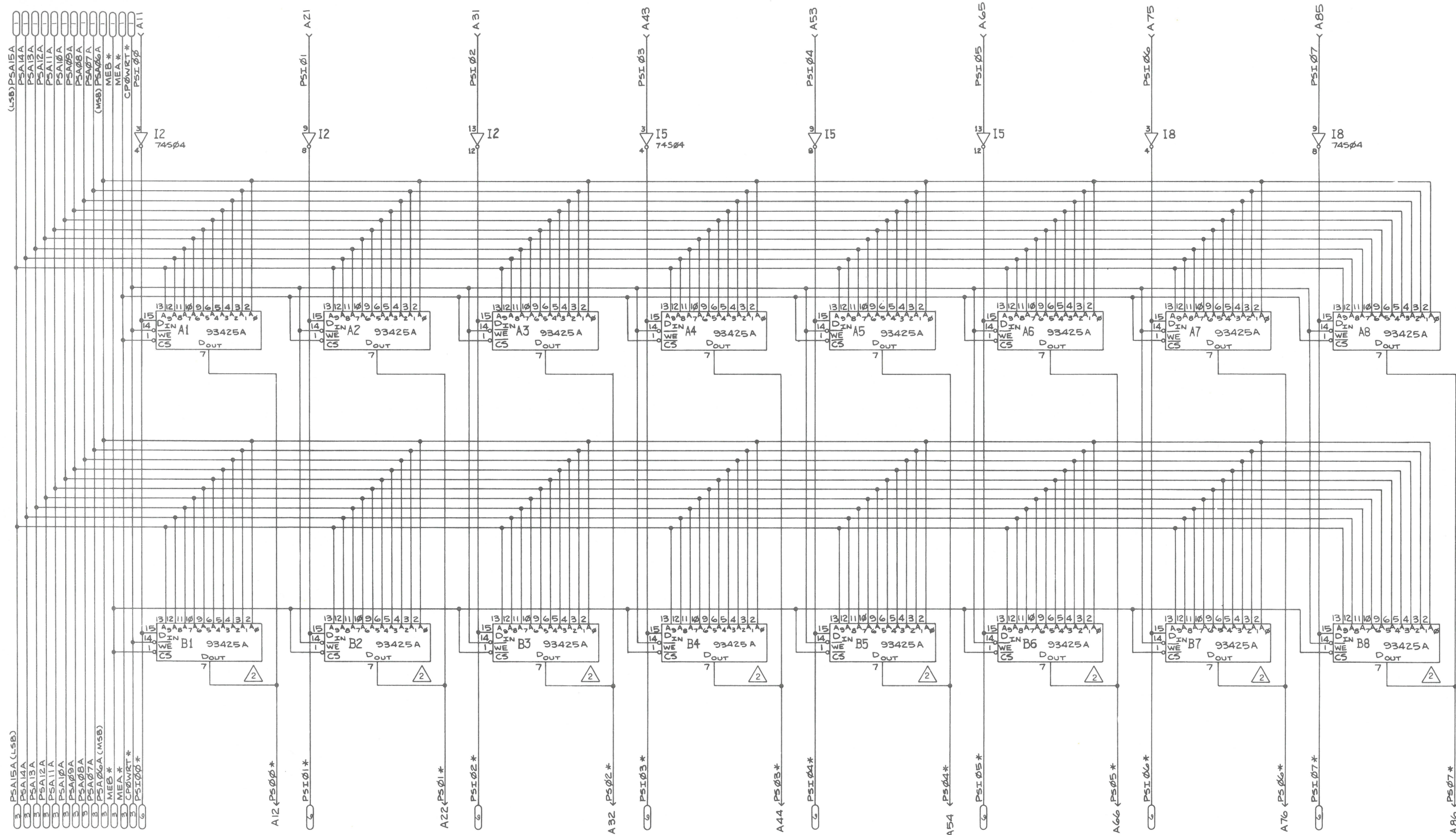
* BOARD 0 RECOMMENDED SETTING
** BOARD 1 RECOMMENDED SETTING

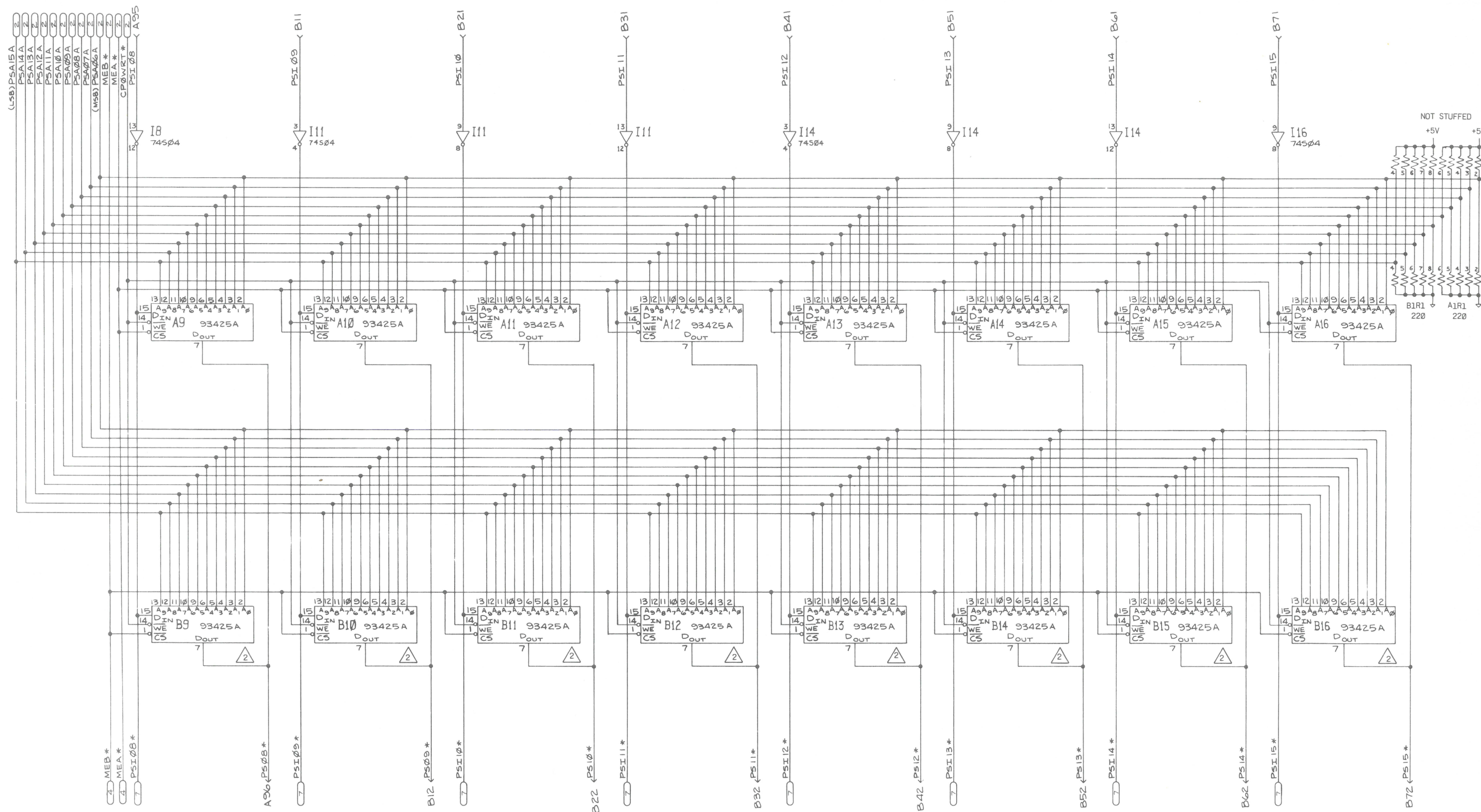
BANK, DECODE BUFFERS

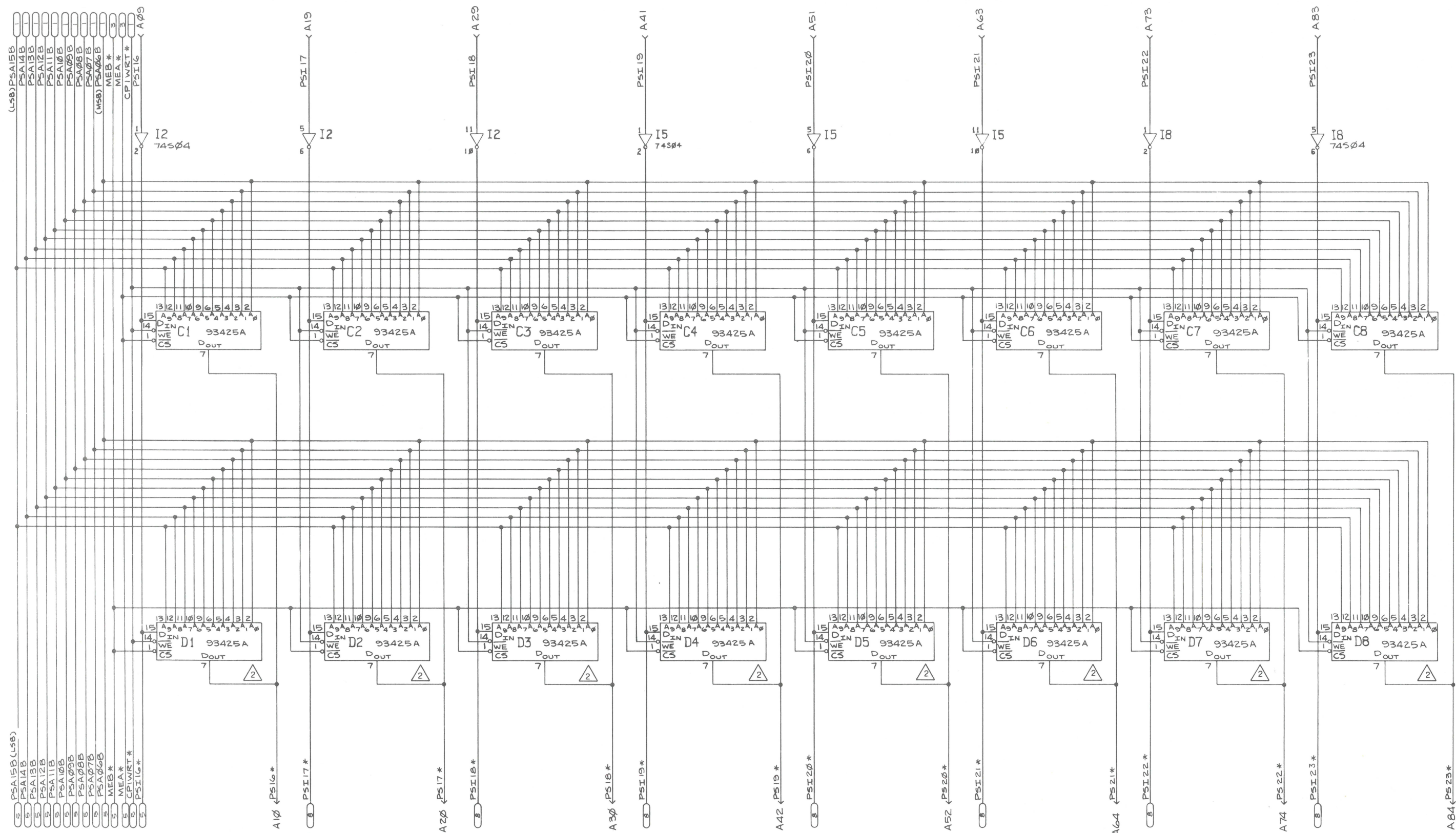
REVISIONS					
REV	AUTH	DESCRIPTION	ZONE	APVD/DATE	CHK/DATE
A	ECO 79373	LEVEL 3 RELEASE		BRY 9/25/79	Dub 9/14/79

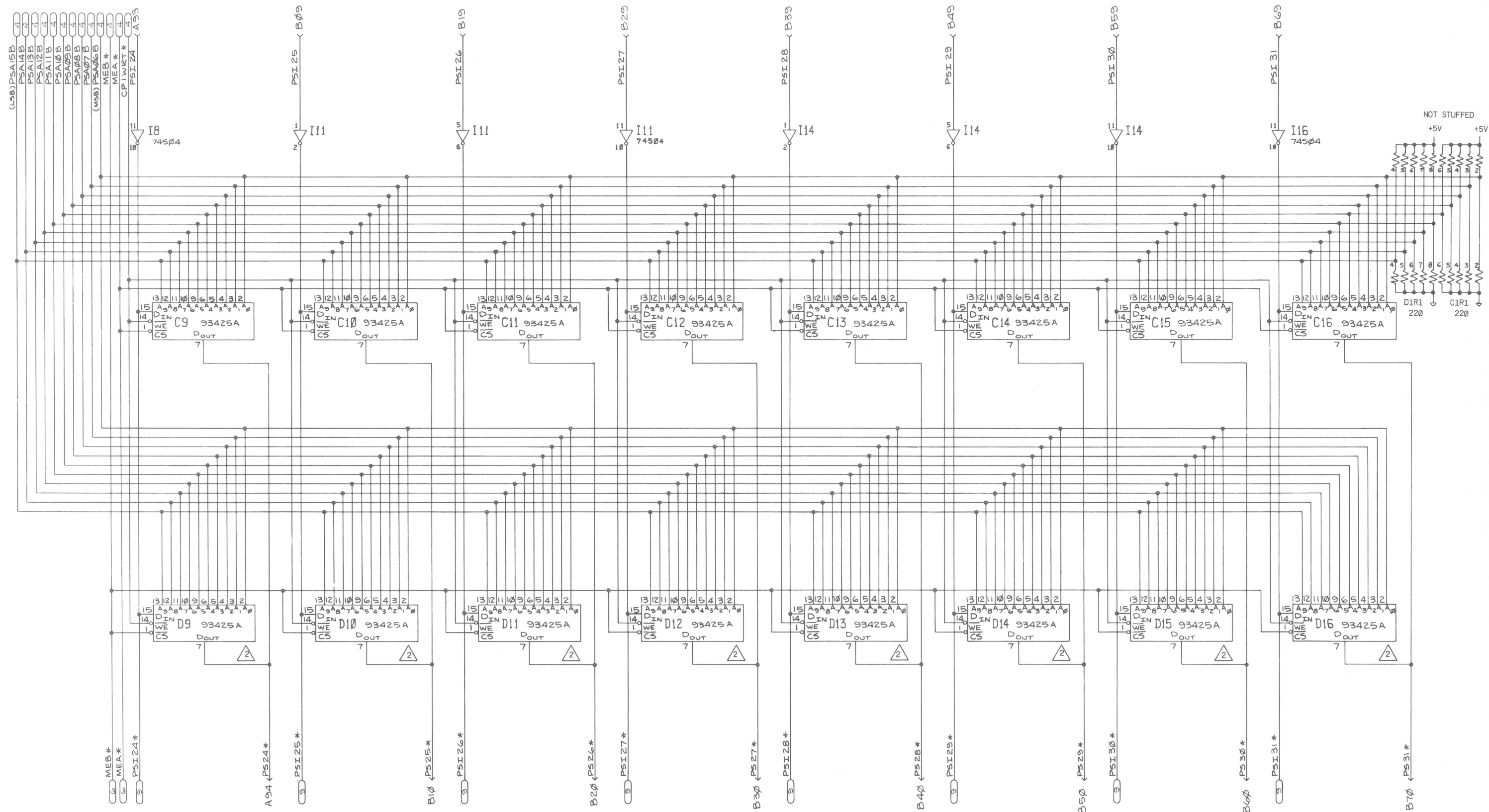
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REV BY 3/12/14/29/15 REV CHK	DRM 2/20/14/12/15 CHK	CHK 5-25/79 APPD Jee Boudi/79	DWG NO 512-3236-000 PAGE 1 OF 9 REV A

floating point systems
CORPORATE HEADQUARTERS
10000 N. 10TH AVE., SUITE 100
DENVER, CO 80231



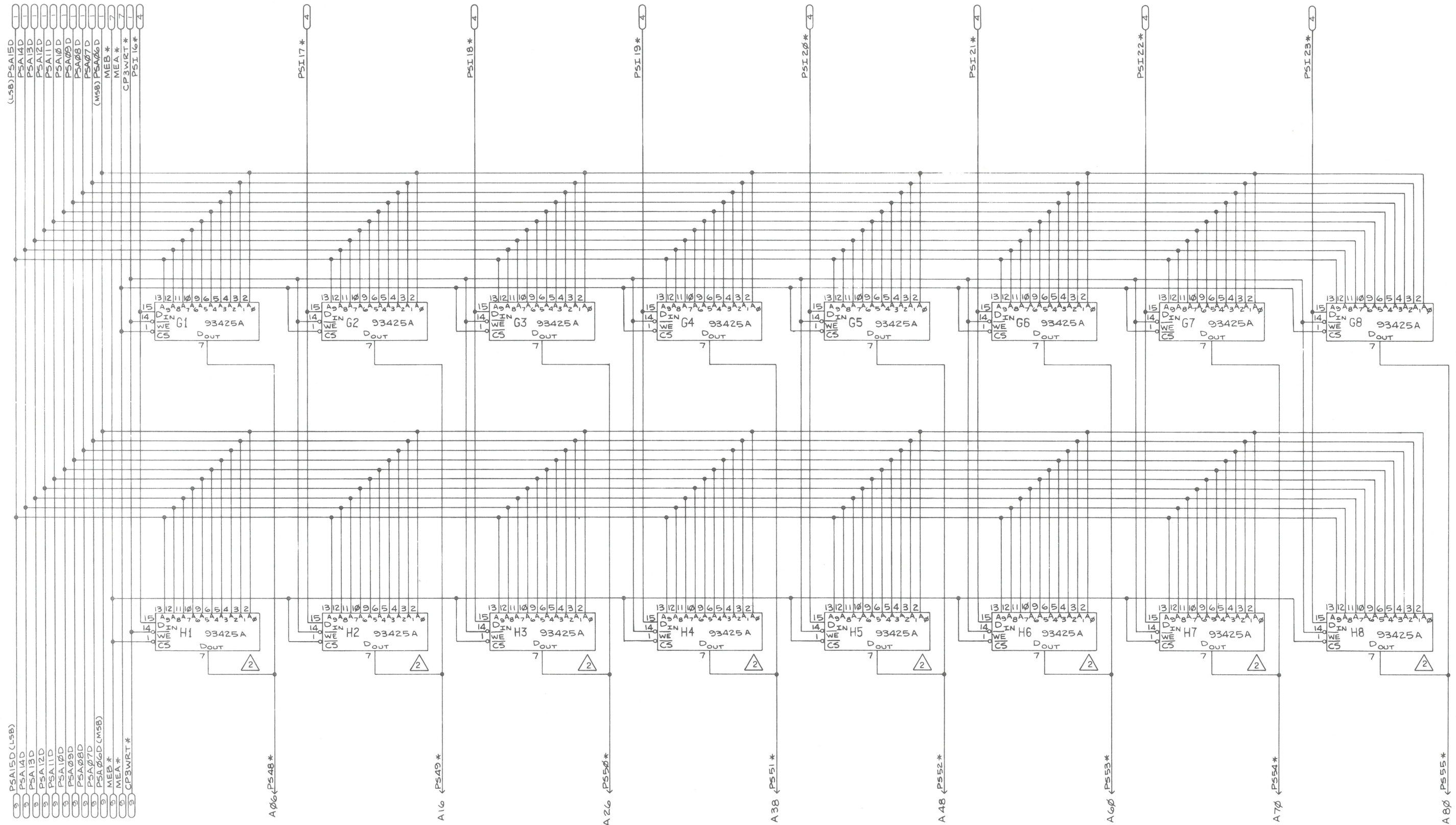


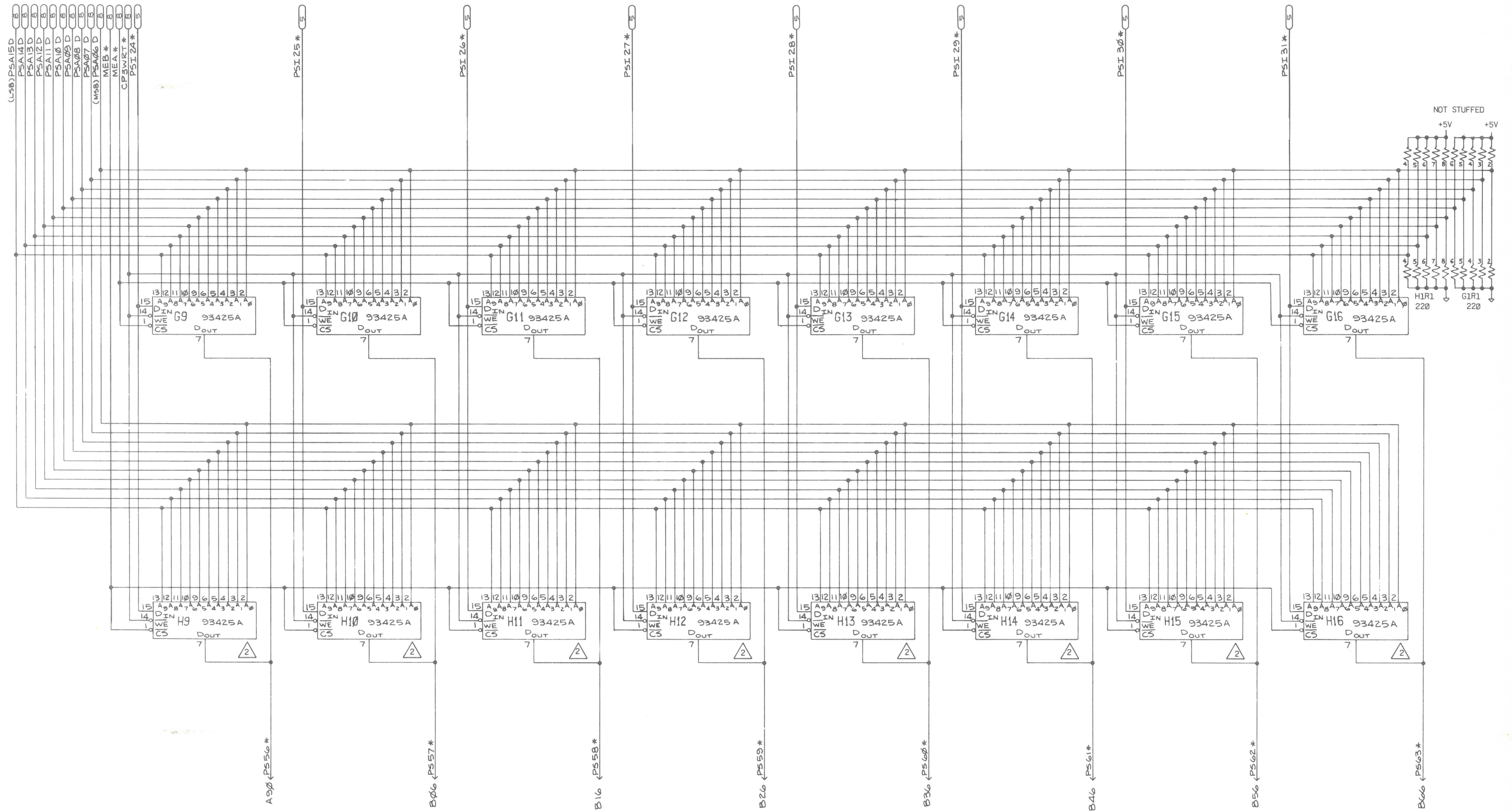


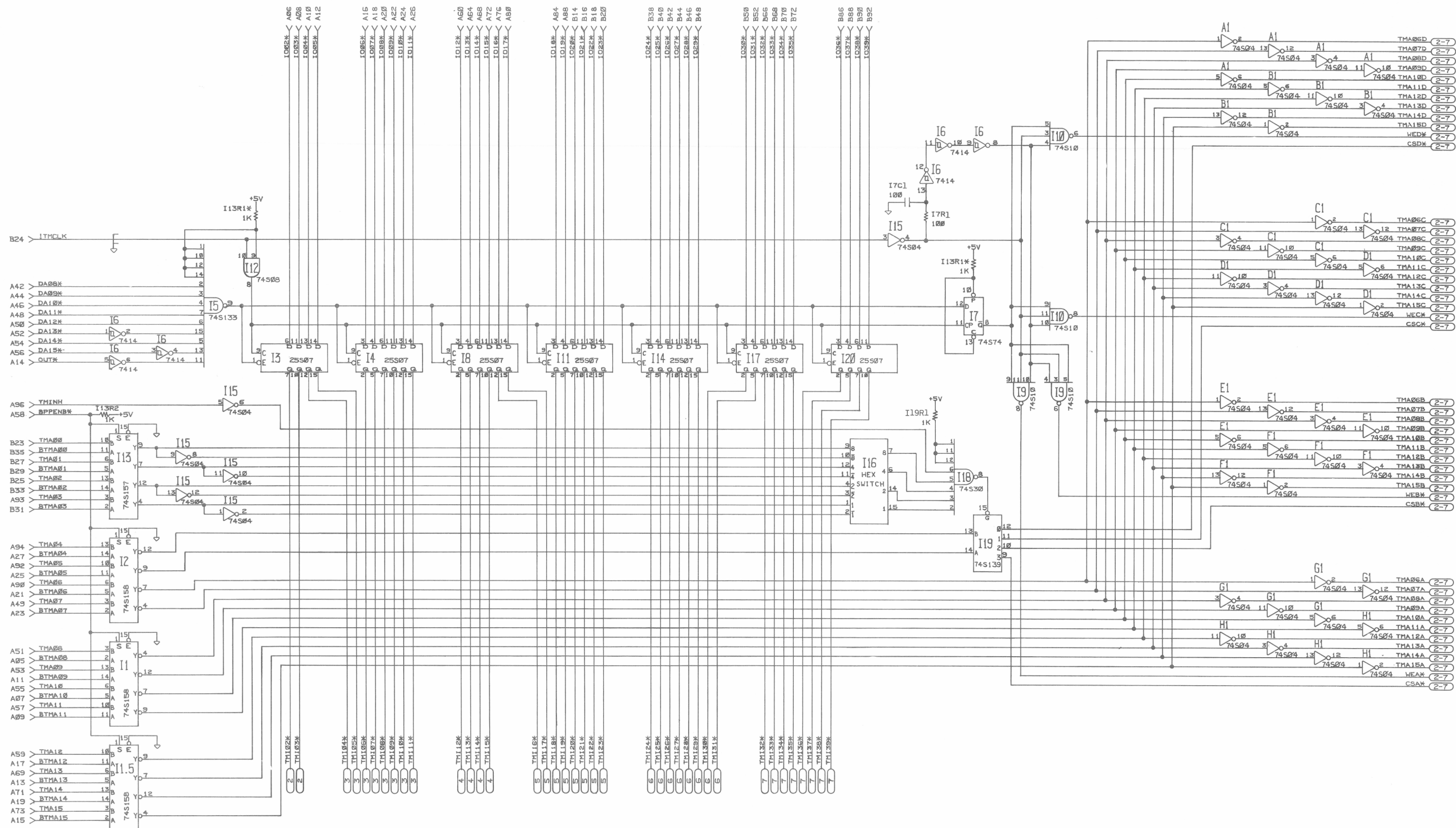












- 3 MEMORY CHIPS A2-A20 AND B2-B20 ARE STUFFED ON 4K BOARDS ONLY.
- 2 MEMORY CHIPS C2-C20 AND D2-D20 ARE STUFFED ON 3K AND 4K BOARDS ONLY.
- 1 MEMORY CHIPS E2-E20 AND F2-F20 ARE STUFFED ON 2K, 3K, AND 4K BOARDS ONLY.

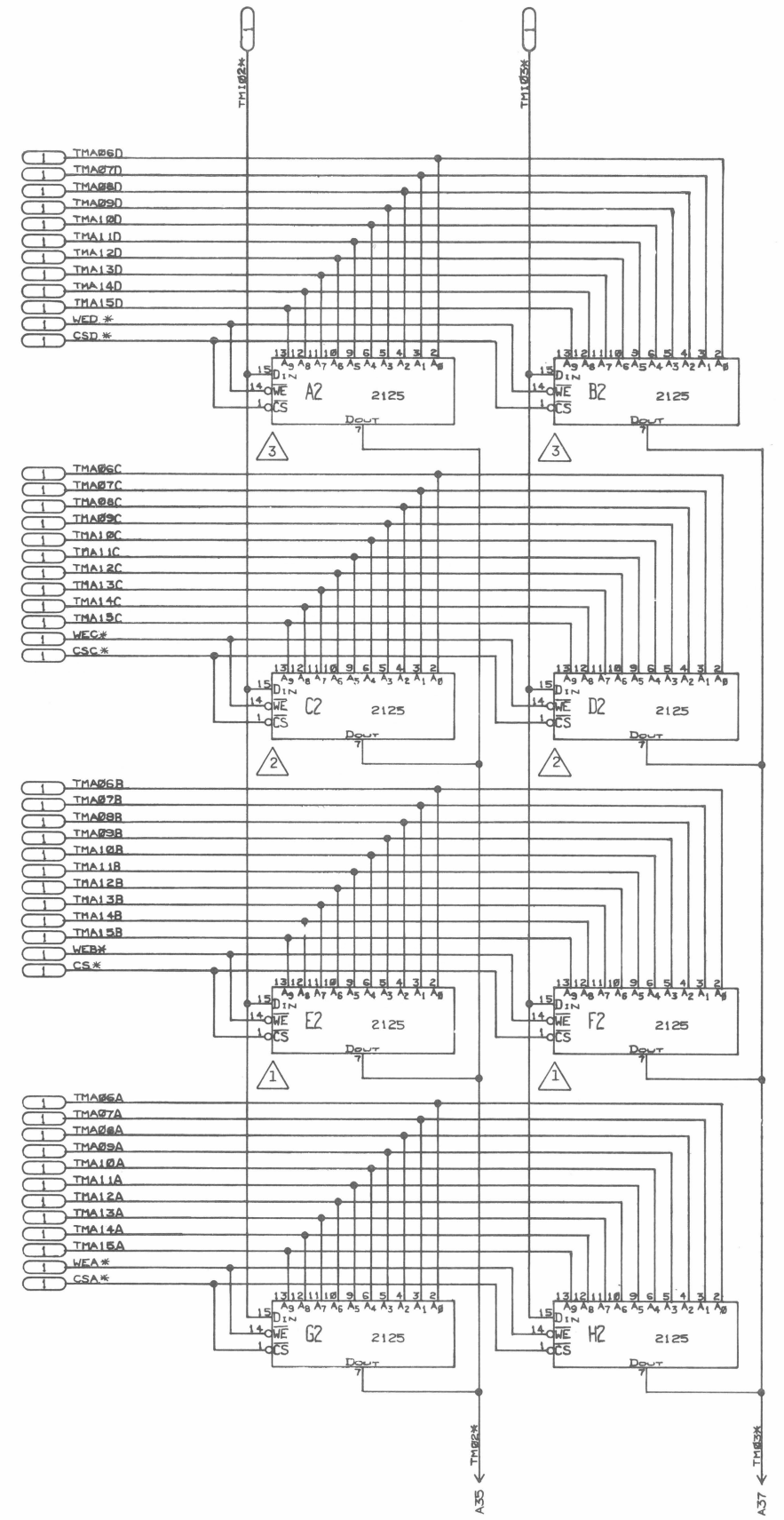
NOTES: UNLESS OTHERWISE SPECIFIED:

REVISIONS					
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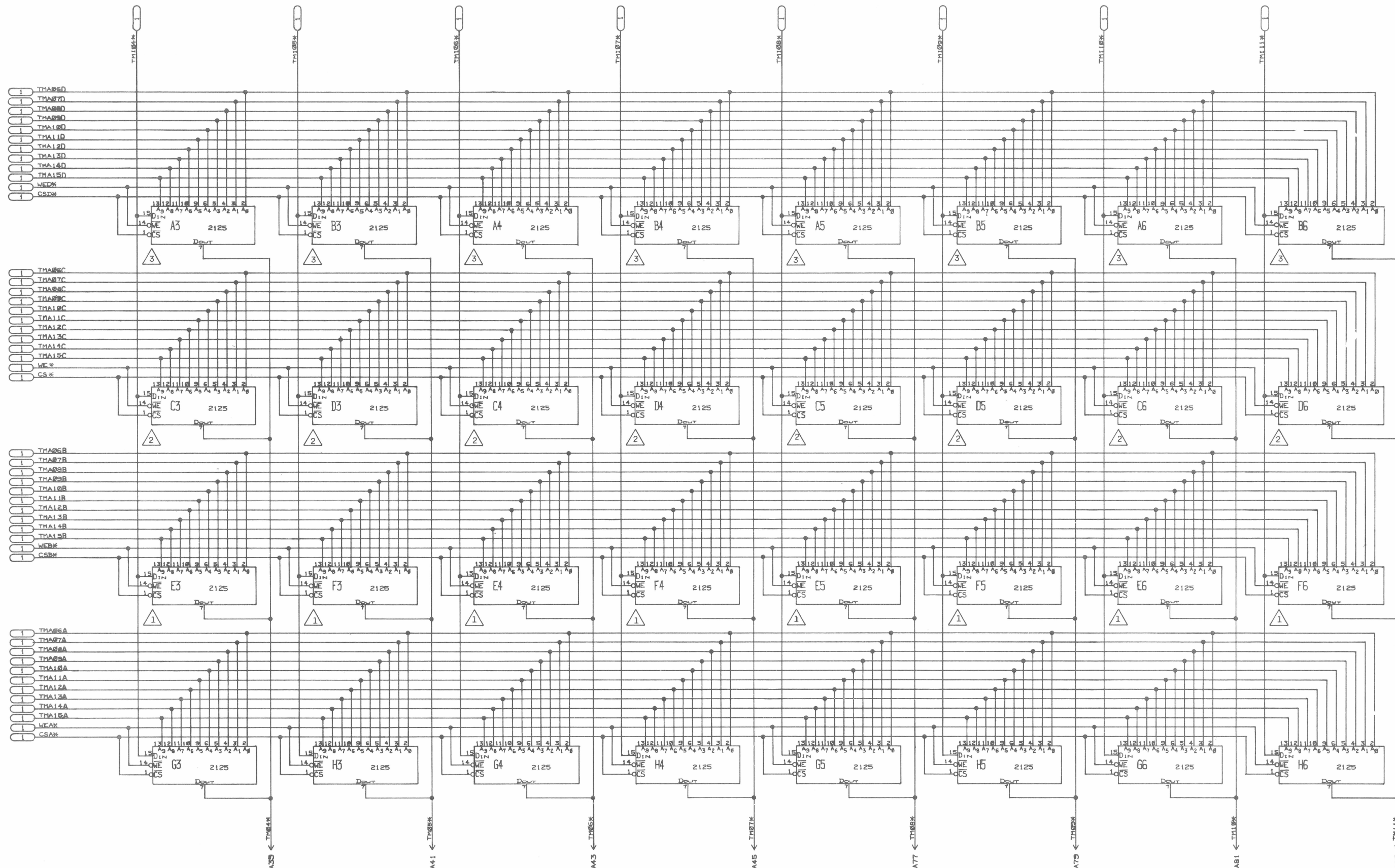
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SCHEMATIC, EC6 258B, TABLE MEMORY RAM	REV BY REV CHK SCALE	DWN 10-11-79 512-3238-001	CHK M.F. 2-2-78 10-11-79 10-11-79 10-11-79
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PAGE 1 OF 7 512-3238-001	REL A
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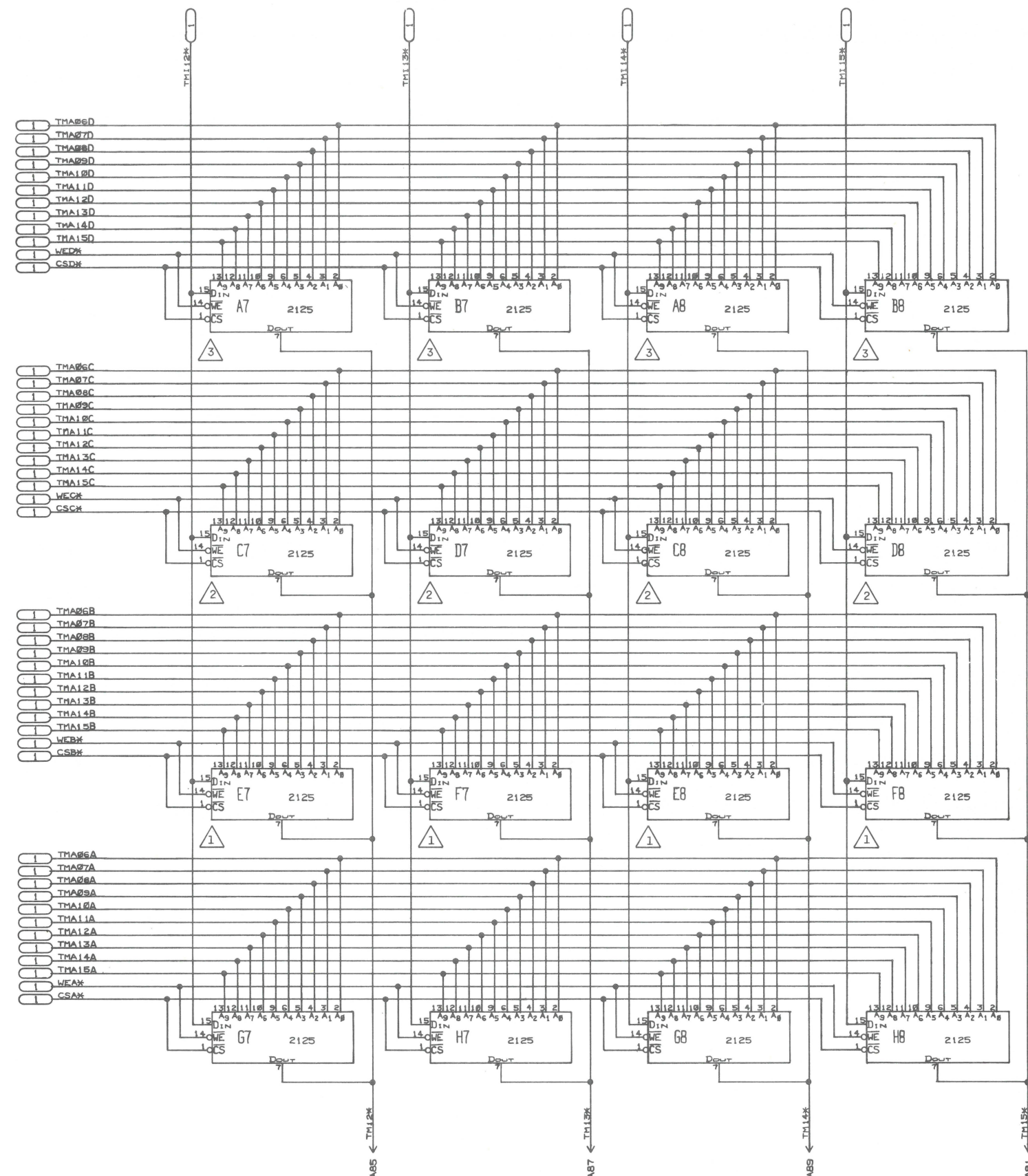


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FRAC.TOL ± 1/32	ANG.TOL REV BY REV CNR	Schematic, ECB, 238B, TABLE MEMORY RAM ORN 1/21/78 APPD M.F. 2-2-78	floating point systems 1020 S.W. CASCADE BLVD. PORTLAND, OREGON 97201 503/820-1800 FAX 503/820-1801
DEC.TOL ± 0.05	SCALE DWG NO	512-3238-001	PAGE 2 OF 7
	REV	A	



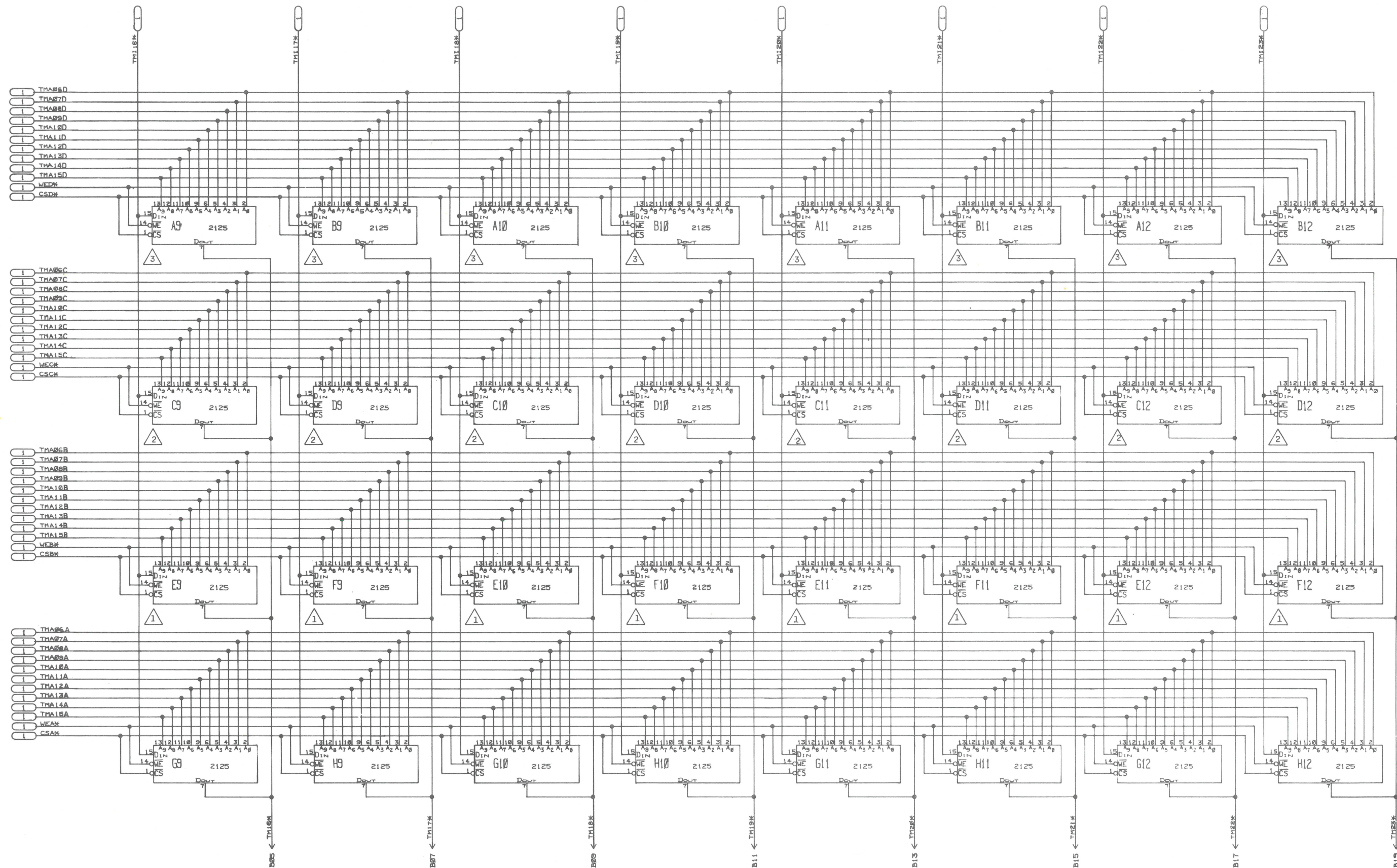
NOTE: USE .2125-2 OR 93425A (EXPONENT)

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NOTE: USE 2125-2 OR 93425A (HIGH MANTISSA)

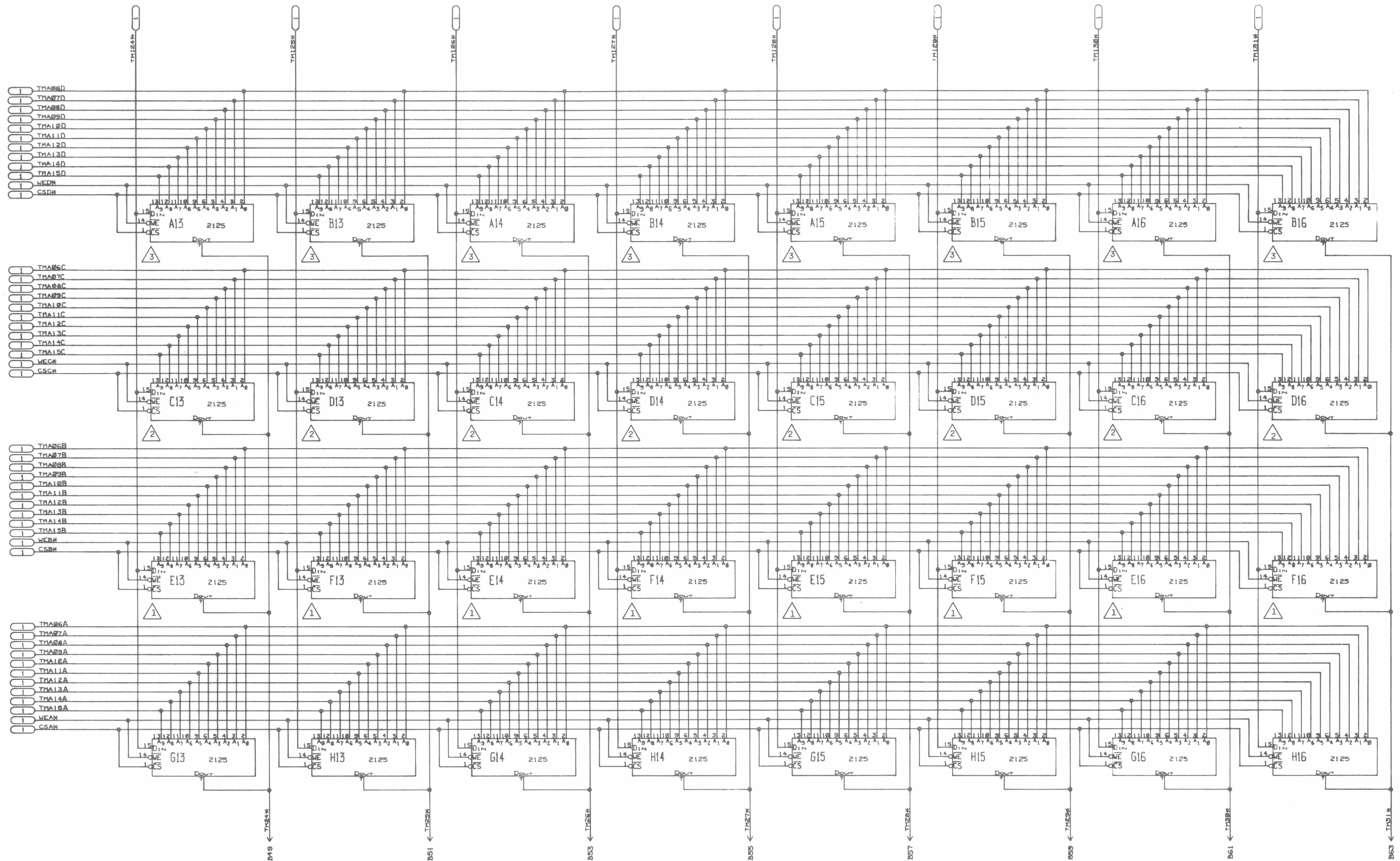
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ANG.TOL REV BY REV CHK SCALE		DRN 5/28/76 CHK R.G.A. 2/8/78 APPD	M.F. 2-2-78	
DWG.NO. 512-3238-001		PAGE 4 OF 7	REV. A	



NOTE: USE 2125-2 OR 93425A (HIGH MANTISSA)

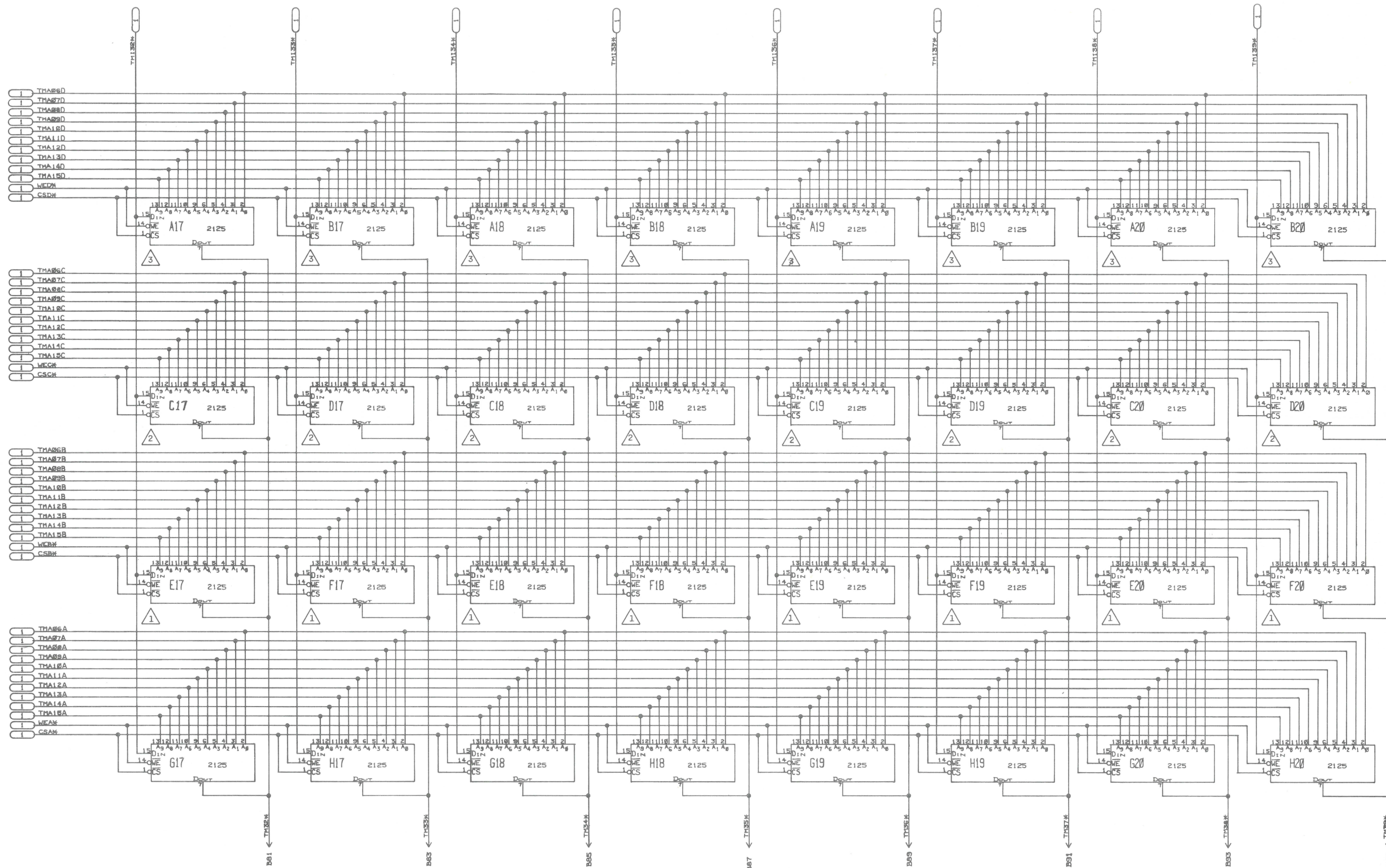
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floating point systems
 2020 N. CASCADE BLVD.
 9071 AND OREGON 97203
 503/820-1980 (1 x 360470)



NOTE: USE 2125-2 OR 93425A (LOW MANTISSA)

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DATE: 1/1/82 REV: 005	REV: 005 DATE: 1/1/82	REV: 005 DATE: 1/1/82	REV: 005 DATE: 1/1/82	REV: 005 DATE: 1/1/82	REV: 005 DATE: 1/1/82
SCALE: 512-3238-001		PAGE 6 OF 7		REV: A	



NOTE: USE 2125-2 OR 93425A (LOW MANTISSA)

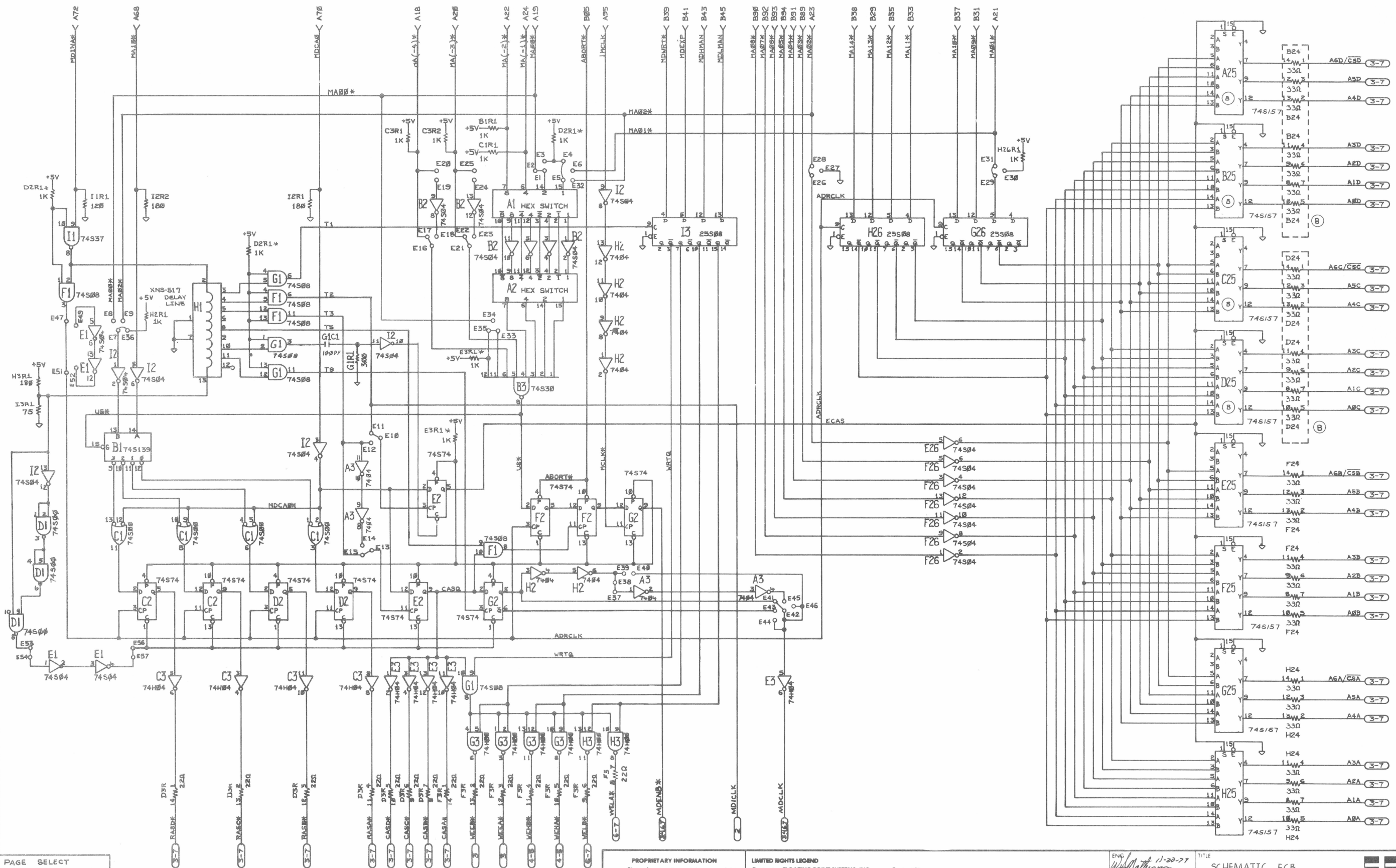
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REV BY REV CHK SCALE	DRN 4/23/75 APPD M.F. 2-2-78	CHK APPD	PAGE 7 OF 7	REV.

REVISIONS					
REV	AUTH	DESCRIPTION	ZONE	APVD DATE	CHK DATE
A	E CO	LEVEL 3 RELEASE		12/11/20	11-8-79

MEMORY SWITCHES		
PAGE	LOWER 32K	UPPER 32K
0	0	2
1	4	6
2	8	A
3	C	E
4	0	2
5	4	6
6	8	A
7	C	E
8	0	2
9	4	6
10	8	A
11	C	E
12	0	2
13	4	6
14	8	A
15	C	E

STRAPS.	PAGE SELECT				
	PAGES	0-3	4-7	8-11	12-15
E16	17	17	18	18	
E19	-	-	20	20	
E21	22	23	22	23	
E24	-	25	-	25	

NOTE: (B) NOT USED



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[illegible]

ENC 11-20-77
W. Matthews
DRN
Folk, Heller
10/2/77
CHK
M.F. 2-2-78
PROD. RELEASE
K. Brink 11-20-77
DEC. TOL.

TITLE
SCHEMATIC, ECB, 244C, MAIN DATA (DUAL, 32K, STANDARD)

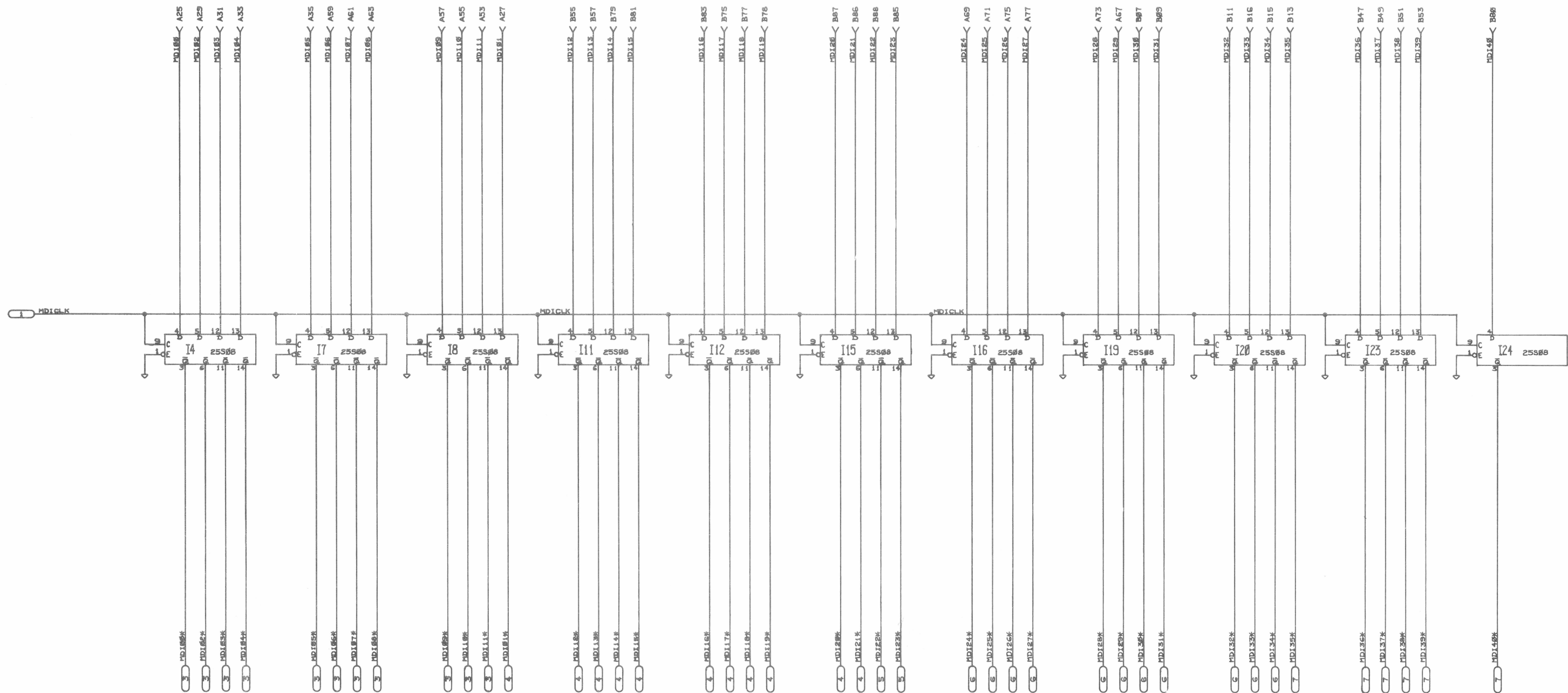
FES

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SYSTEMS, INC.

P.O. BOX 23486 PORTLAND, OR 97223

DWG. NO.	512-3244-003
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PAGE 1 OF 7 REV. A



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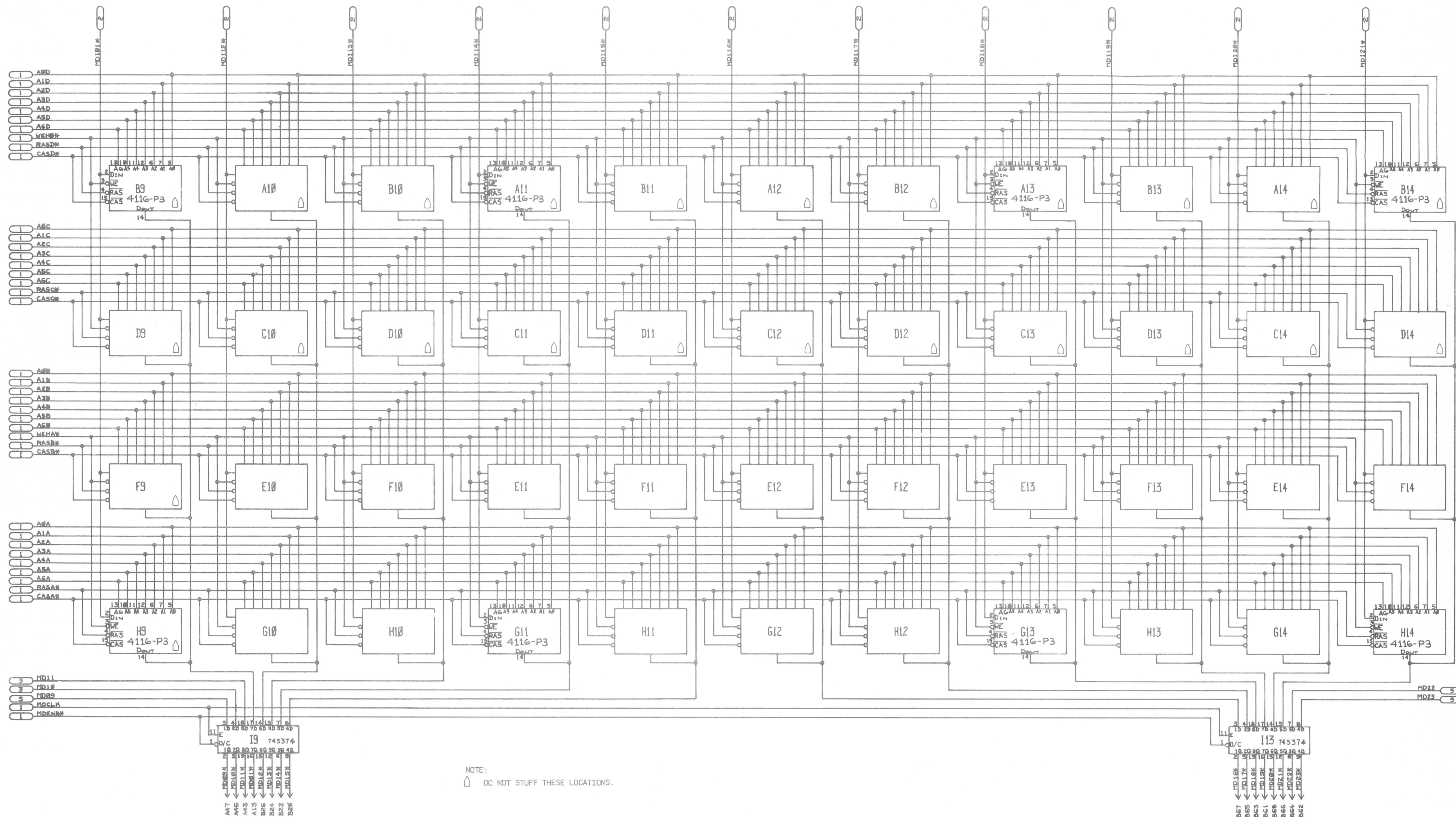
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ENG
DRN
CHK
PROD RELEASE
DEC 101

TITLE
SCHEMATIC, ECB,
244C,
MAIN DATA
(DUAL, 32K, STANDARD)
DWG NO
512-3244-003

PAGE 2 OF 7
REV
A

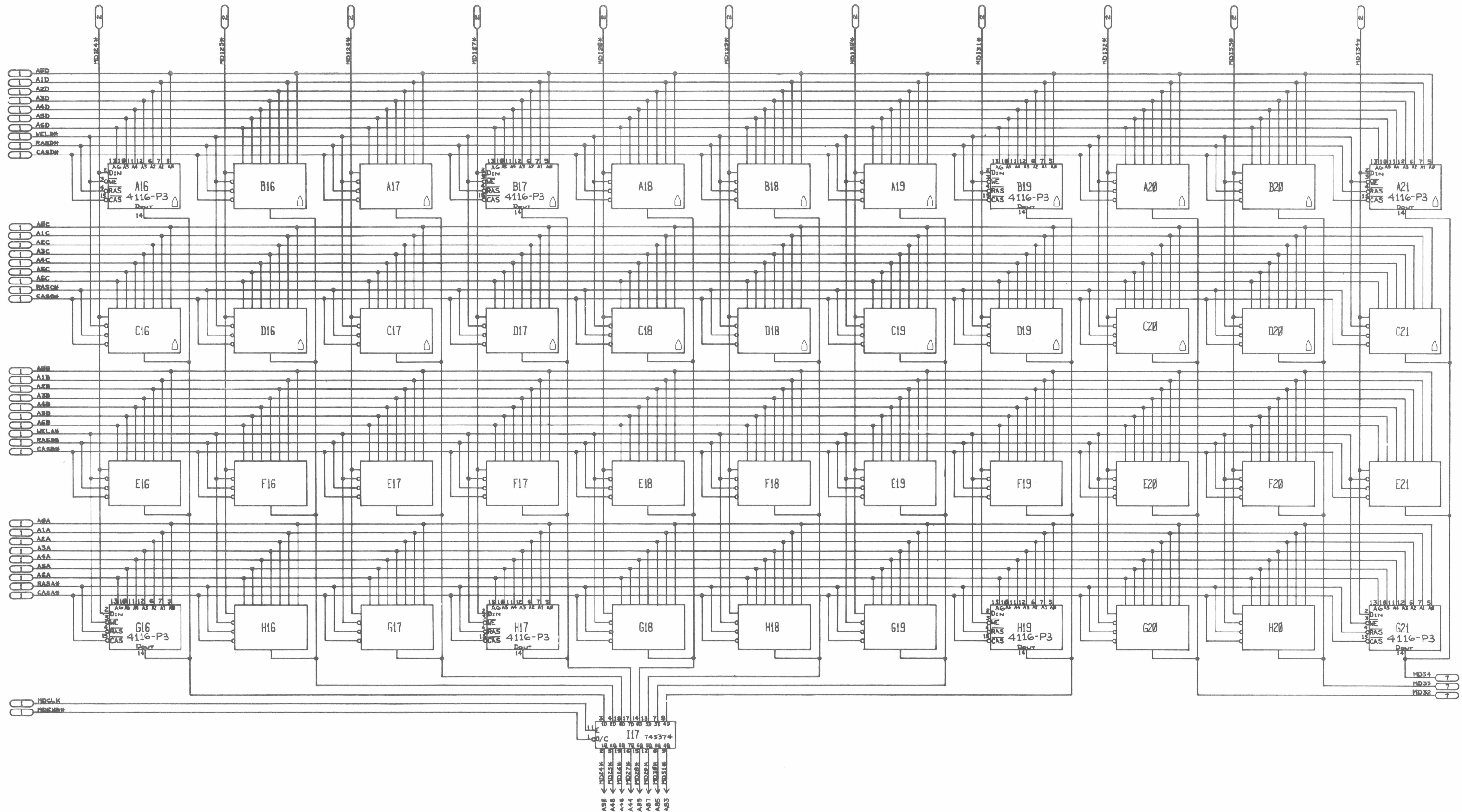




NOTE:
 ⚠ DO NOT STUFF THESE LOCATIONS.

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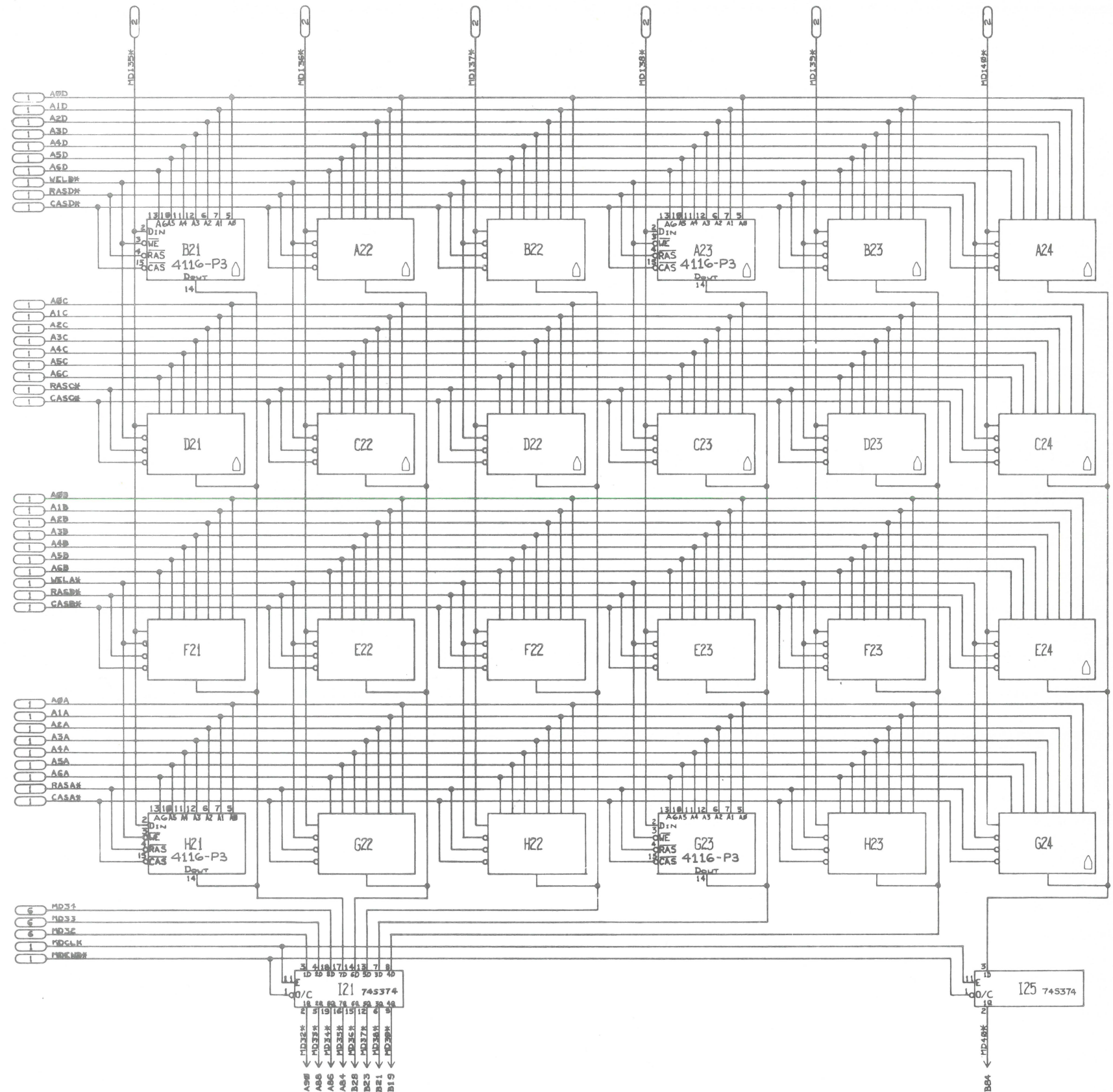




NOTE:
 ⚠ DO NOT STUFF THESE LOCATIONS

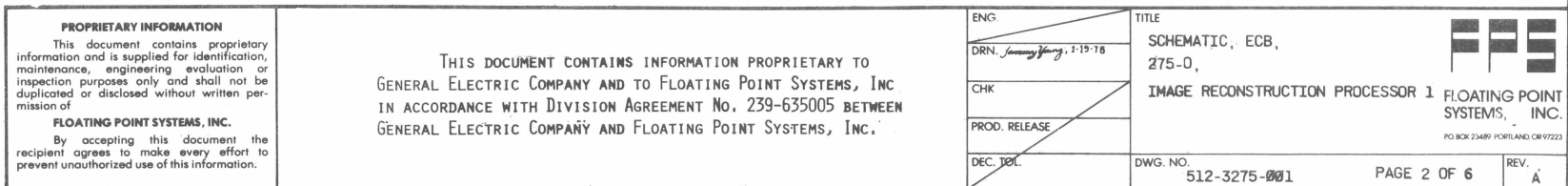
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ENG DRN CHK PROD RELEASE DEC 101	TITLE SCHEMATIC, ECB, 244C, MAIN DATA (DUAL, 32K, STANDARD)	DWG NO. 512-3244-003	PAGE 6 OF 7 REV A

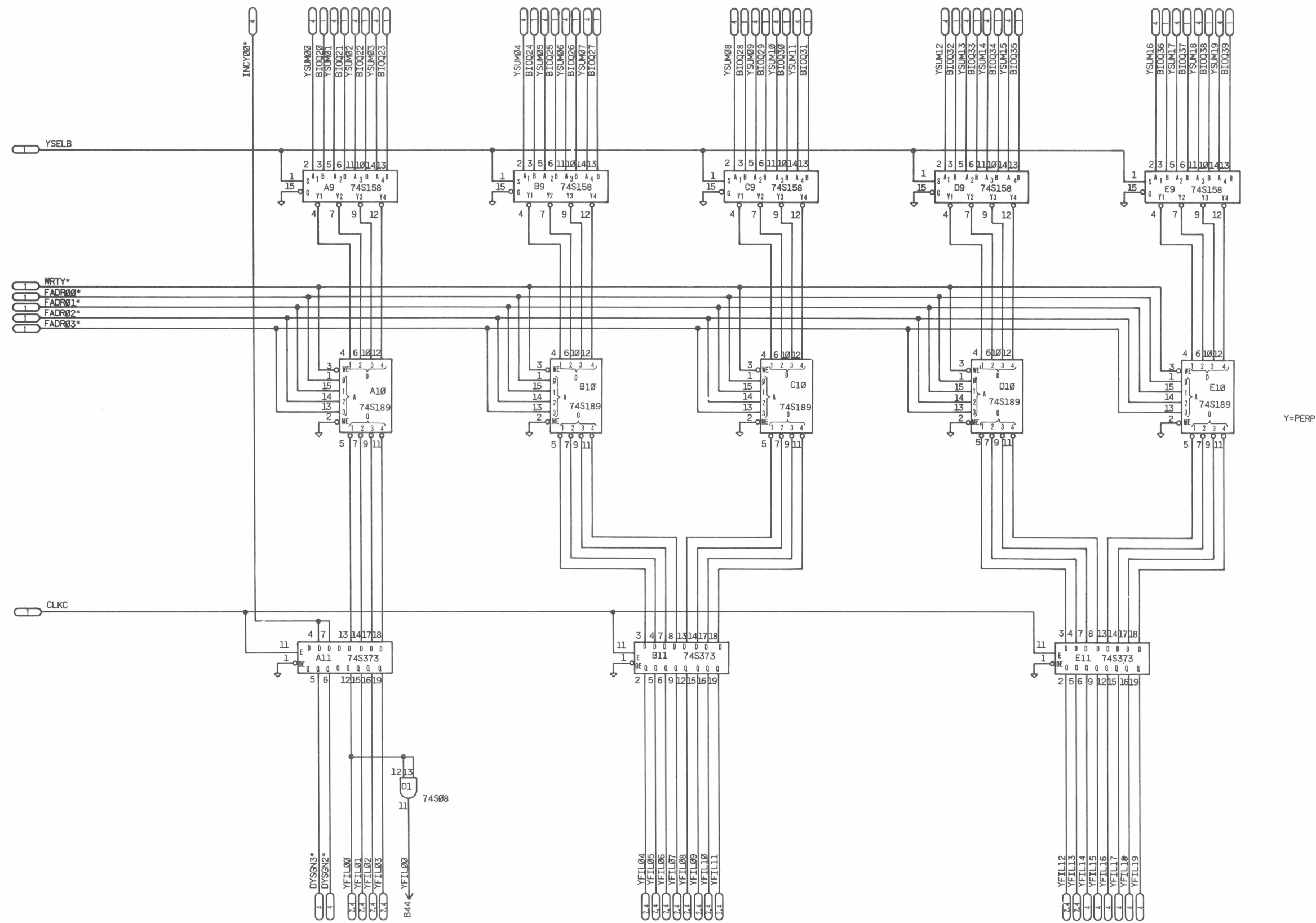




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				LOW MANTISSA		PAGE 7 OF 7		REV A	



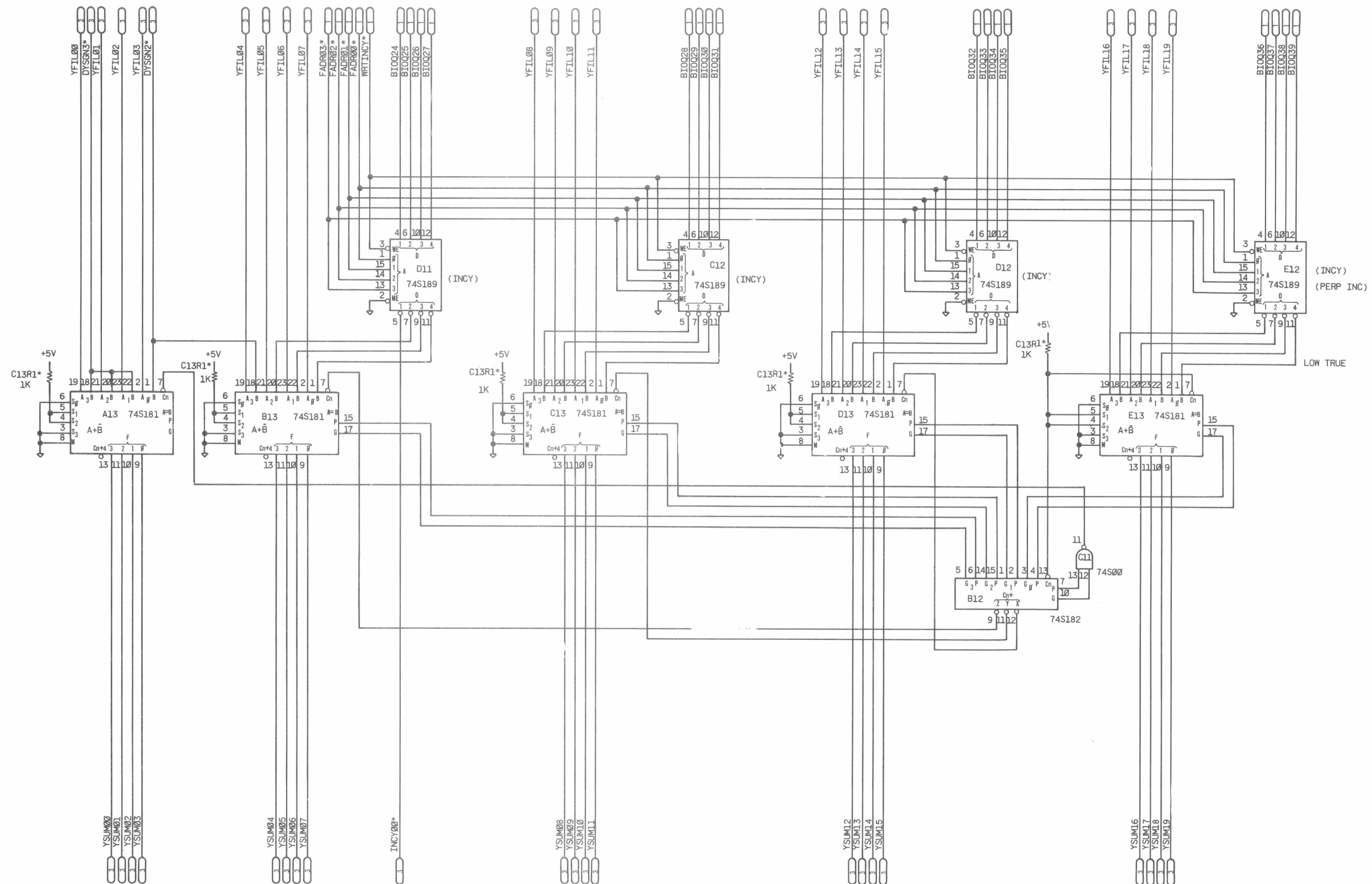


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 GENERAL ELECTRIC COMPANY AND FLOATING POINT SYSTEMS, INC.

ENG.
 DRN. R.S. THURMAN
 1/20/78
 CHK.
 PROD. RELEASE
 DEC. TOC.

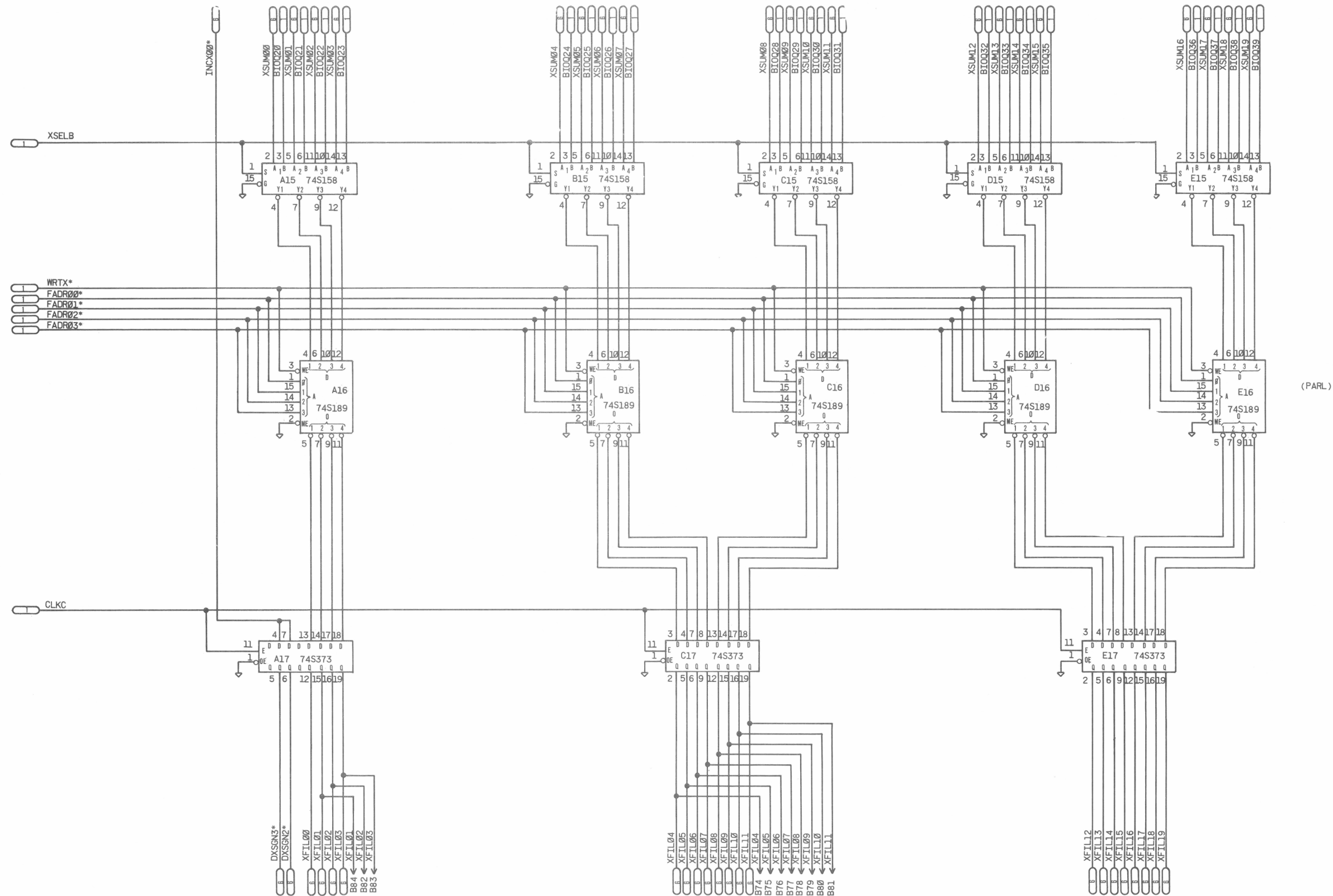
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 275-0,
 IMAGE RECONSTRUCTION PROCESSOR 1
 FLOATING POINT SYSTEMS, INC.
 DWG. NO. 512-3275-001
 PAGE 3 OF 6
 REV A



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ENG.	TITLE SCHEMATIC, ECB, 275-0, IMAGE RECONSTRUCTION PROCESSOR 1 FLOATING POINT SYSTEMS, INC. PO BOX 2348P PCN/LAND OR 97223		
DRN. <i>Jimmy Young</i> 1-19-78			
CHK.			
PROD. RELEASE			
DEC. 10L	DWG. NO. 512-3275-001	PAGE 4 OF 6	REV. A



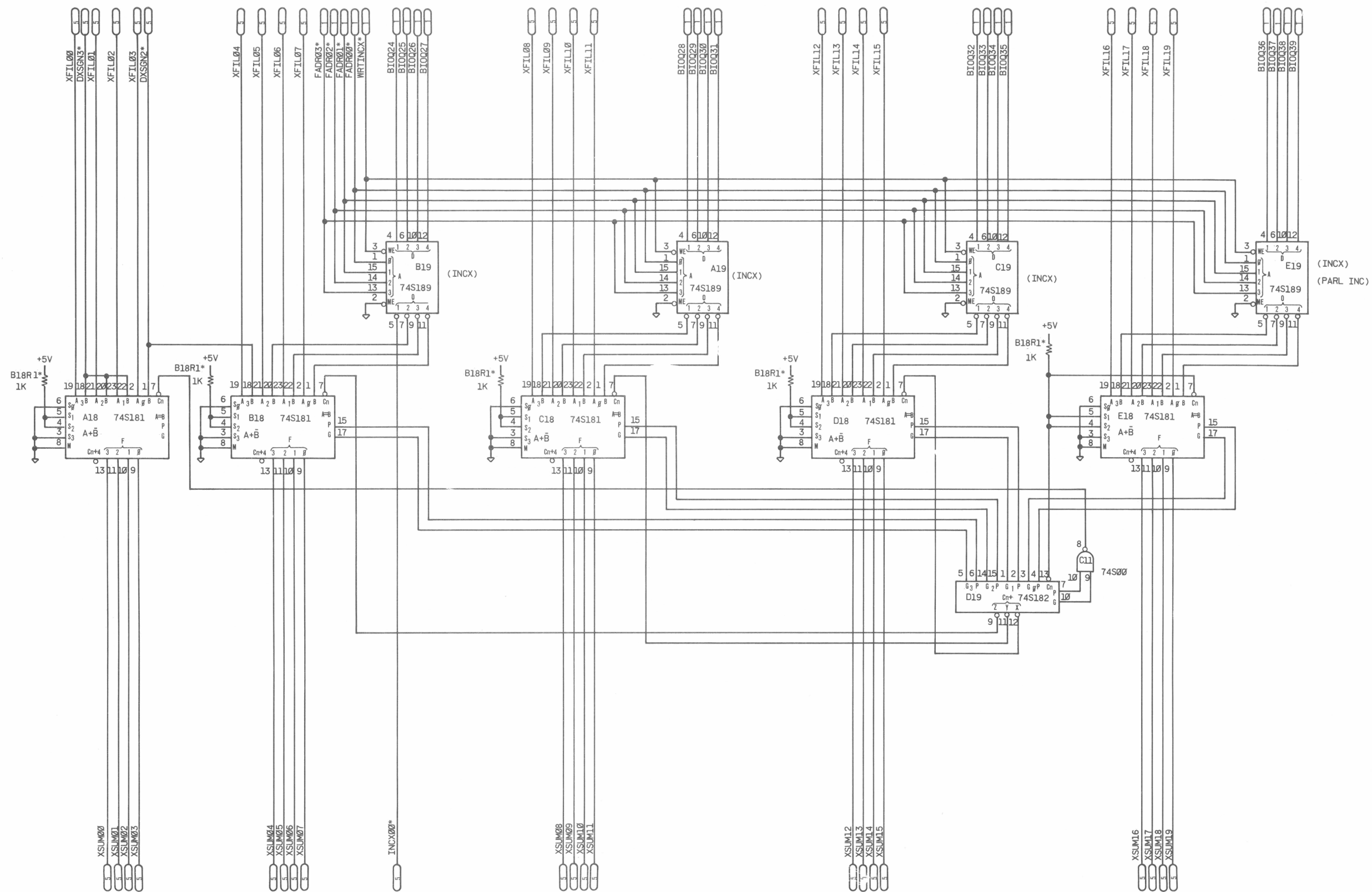
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ENG.
 DRN. *Jammy Young* 1-28-78
 CHK.
 PROD. RELEASE
 DEC. 101.

TITLE
 SCHEMATIC, ECB,
 275-0,
 IMAGE RECONSTRUCTION PROCESSOR 1
 DWG. NO.
 512-3275-001
 PAGE 5 OF 6

FPS
 FLOATING POINT
 SYSTEMS, INC.
 PO BOX 23491 PORTLAND, OR 97223
 REV.
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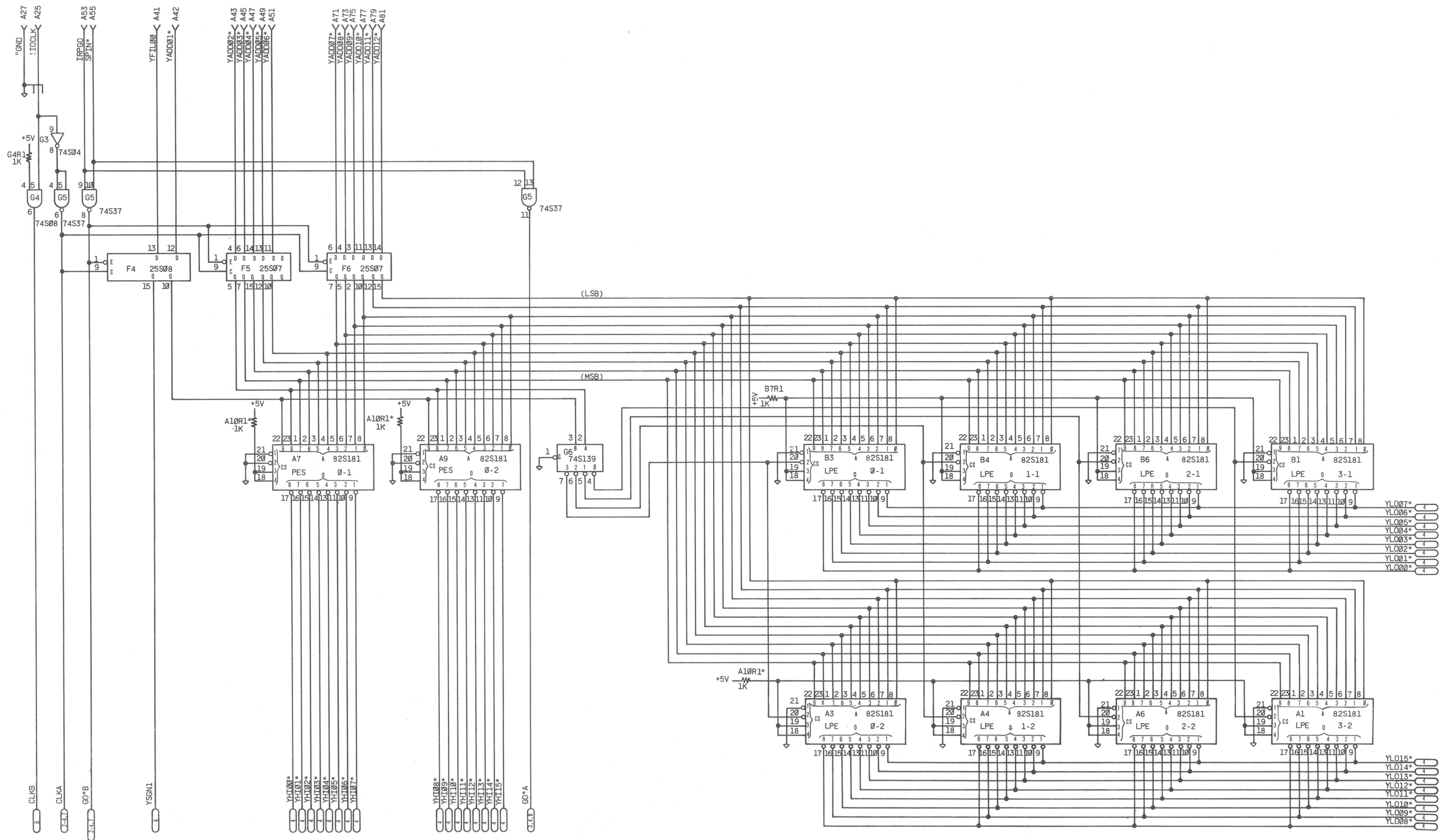
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ENG. *James Young, 1-26-78*
 DRN.
 CHK.
 PROD. RELEASE
 DEC. TEL.

TITLE
 SCHEMATIC, ECB,
 275-0,
 IMAGE RECONSTRUCTION PROCESSOR 1 FLOATING POINT
 SYSTEMS, INC.
 DWG. NO. 512-3275-001
 PAGE 6 OF 6
 REV. A



FD BOX 23489 PORTLAND, OR 97223



REVISIONS					
REV	AUTH	DESCRIPTION	ZONE	APVD/DATE	CHK/DATE
A	ECO 79533	LEVEL 3 RELEASE		11-12-79	
B	ECO 80557	CORRECT LOGIC SYMBOL AT D18		2-3-81	

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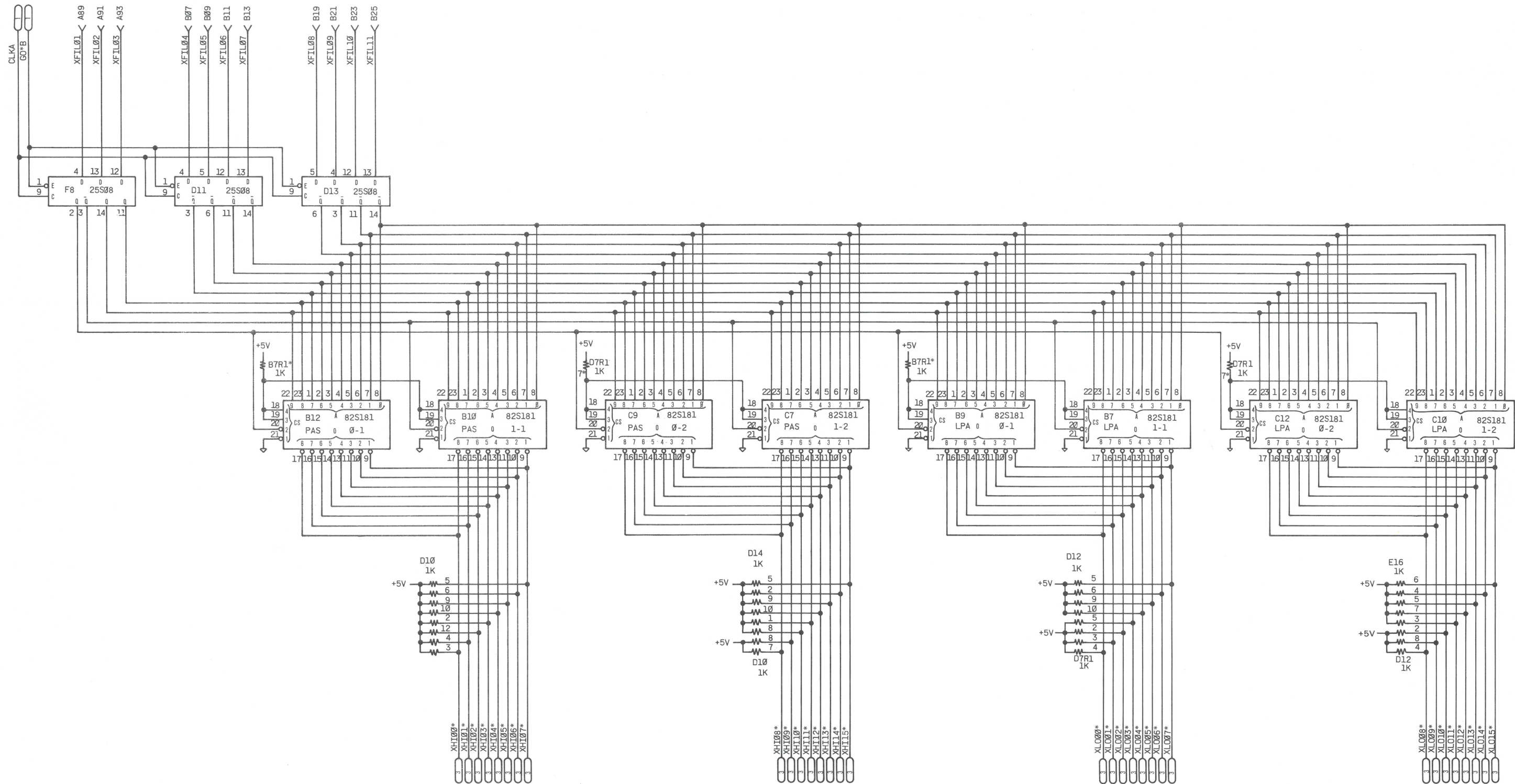
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ENG. *R.S. Thurman* 11-12-79
 DRN. R.S. THURMAN 1/24/78
 CHK. *D. Stankovic* 9/5/78
 PROD. RELEASE
 DEC. TOL. *Steve Bruck* 11-18-79

TITLE
 SCHEMATIC, ECB, 276-0, IMAGE RECONSTRUCTION PROCESSOR 2

DWG. NO. 512-3276-000
 PAGE 1 OF 8
 REV. B

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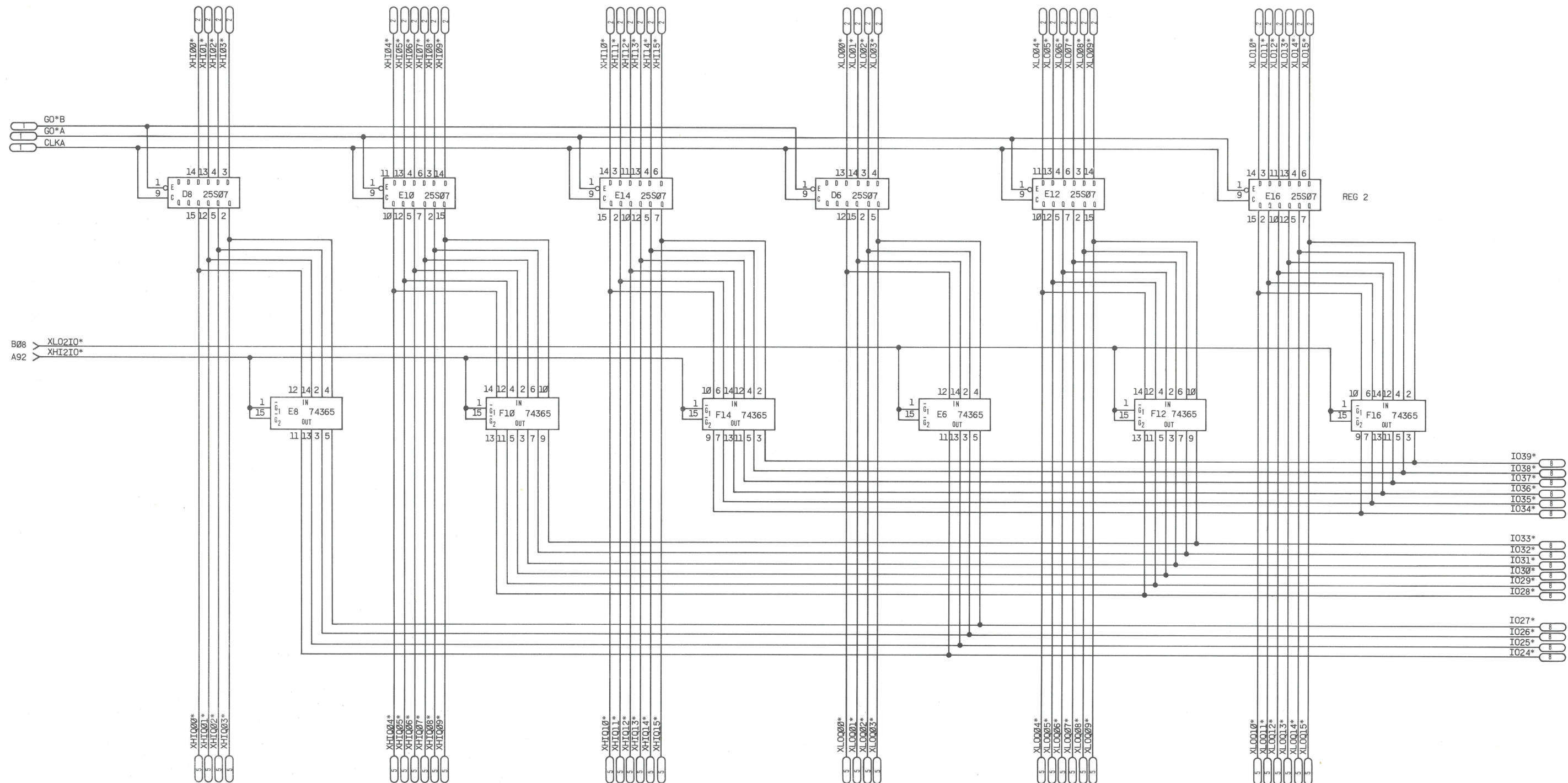
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ENG.
 DRN. 1-78
 S. Franjos
 CHK.
 PROD. RELEASE
 DEC. 10.

TITLE
 SCHEMATIC, ECB,
 276-0,
 IMAGE RECONSTRUCTION
 PROCESSOR 2

DWG. NO. 512-3276-000 PAGE 2 OF 8

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 SYSTEMS, INC.
 PO BOX 23480 PORTLAND OR 97223
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ENG.
DRN. R.S. THURMAN
CHK. 1/24/78
PROD. RELEASE
DEC. 101.

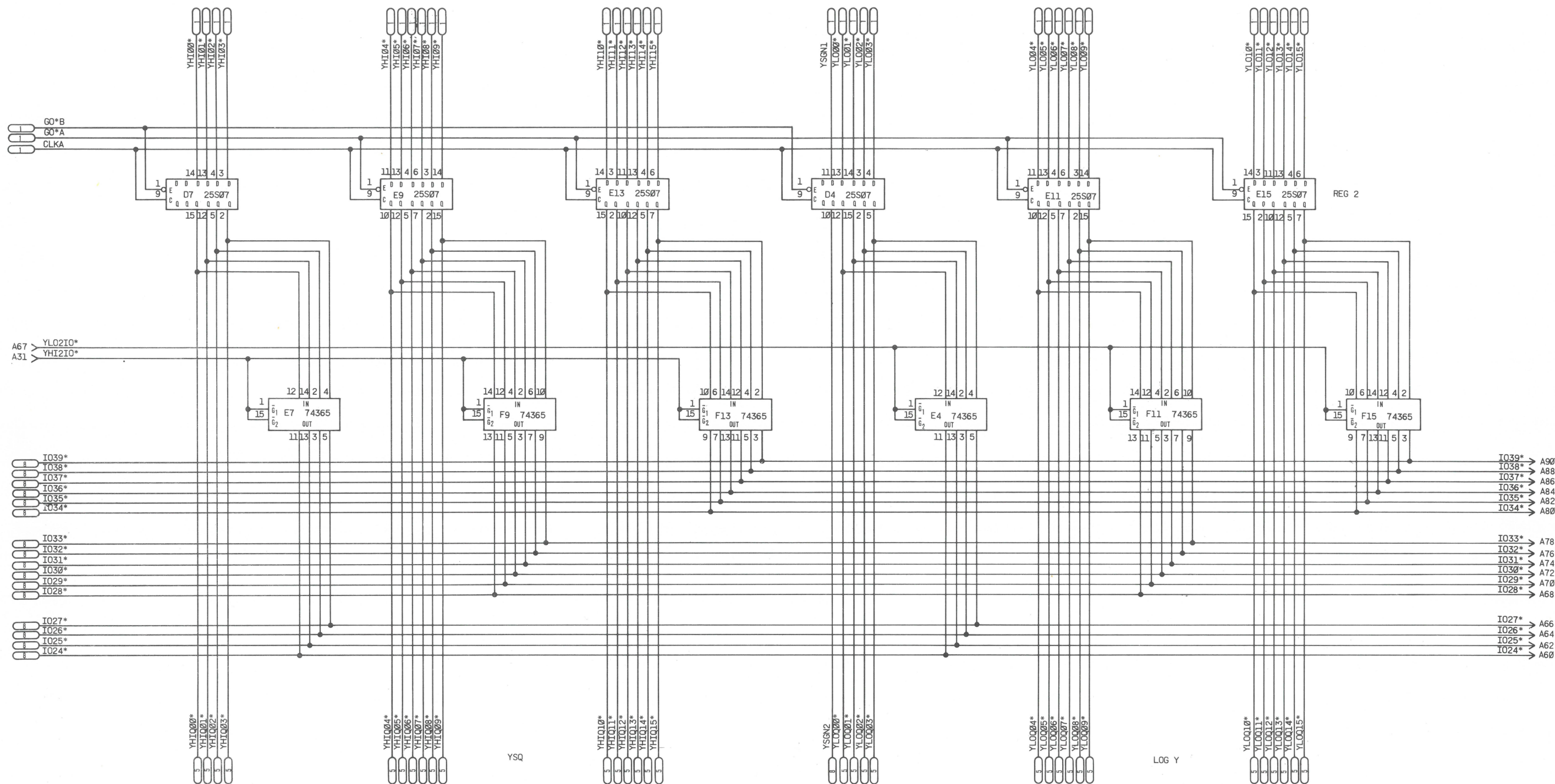
TITLE
SCHEMATIC, ECB,
276-0,
IMAGE RECONSTRUCTION
PROCESSOR 2

DWG. NO. 512-3276-000

PAGE 3 OF 8

REV. B

FPS
FLOATING POINT
SYSTEMS, INC.
PO BOX 23489 PORTLAND, OR 97223



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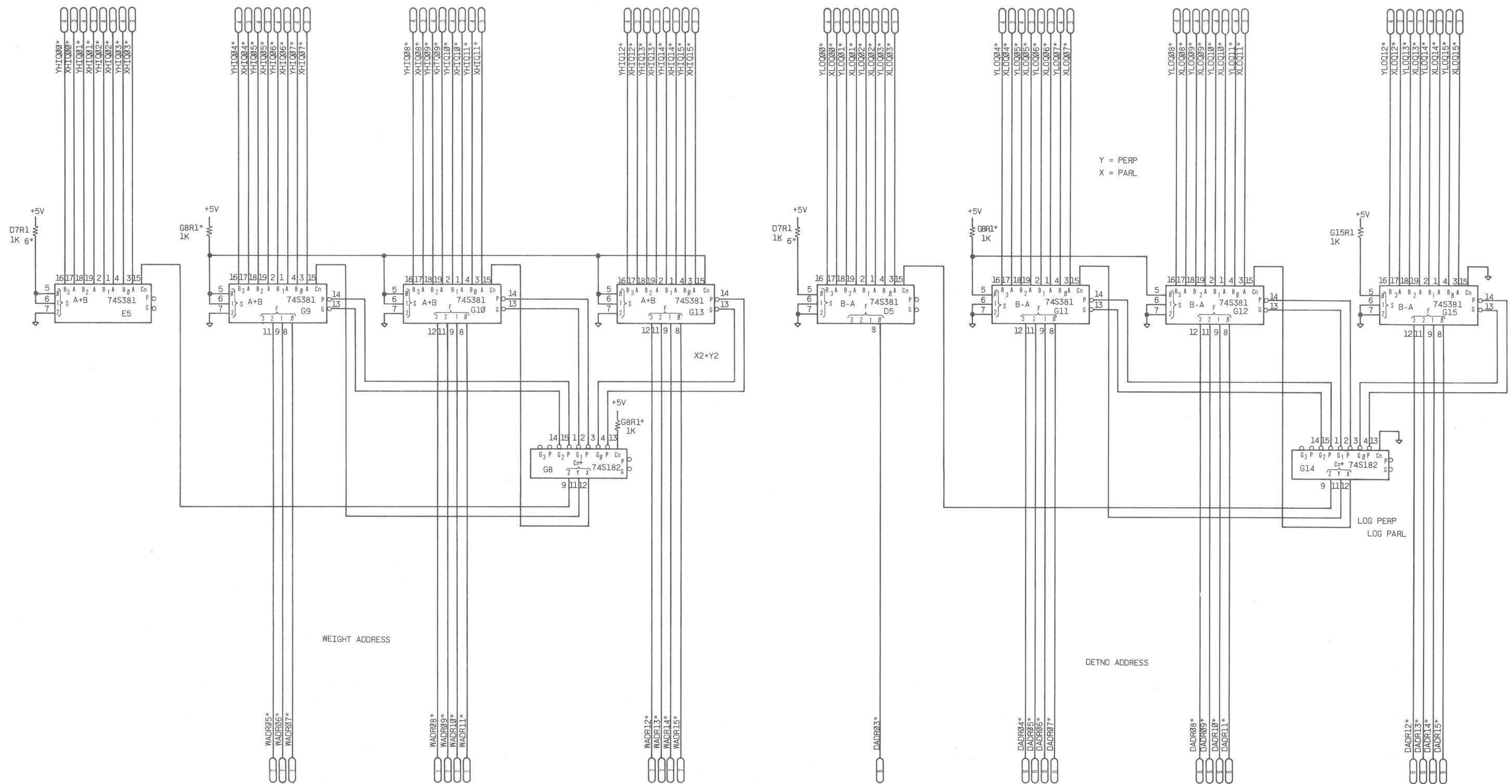
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ENG
 DRN. R.S. THURMAN
 1/24/78
 CHK.
 PROD. RELEASE
 DEC. 101.

TITLE
 SCHEMATIC, ECB,
 276-0,
 IMAGE RECONSTRUCTION
 PROCESSOR 2

FPS
 FLOATING POINT
 SYSTEMS, INC.
 101 BURNING PORTLAND DRIVE
 PORTLAND, ME 04106

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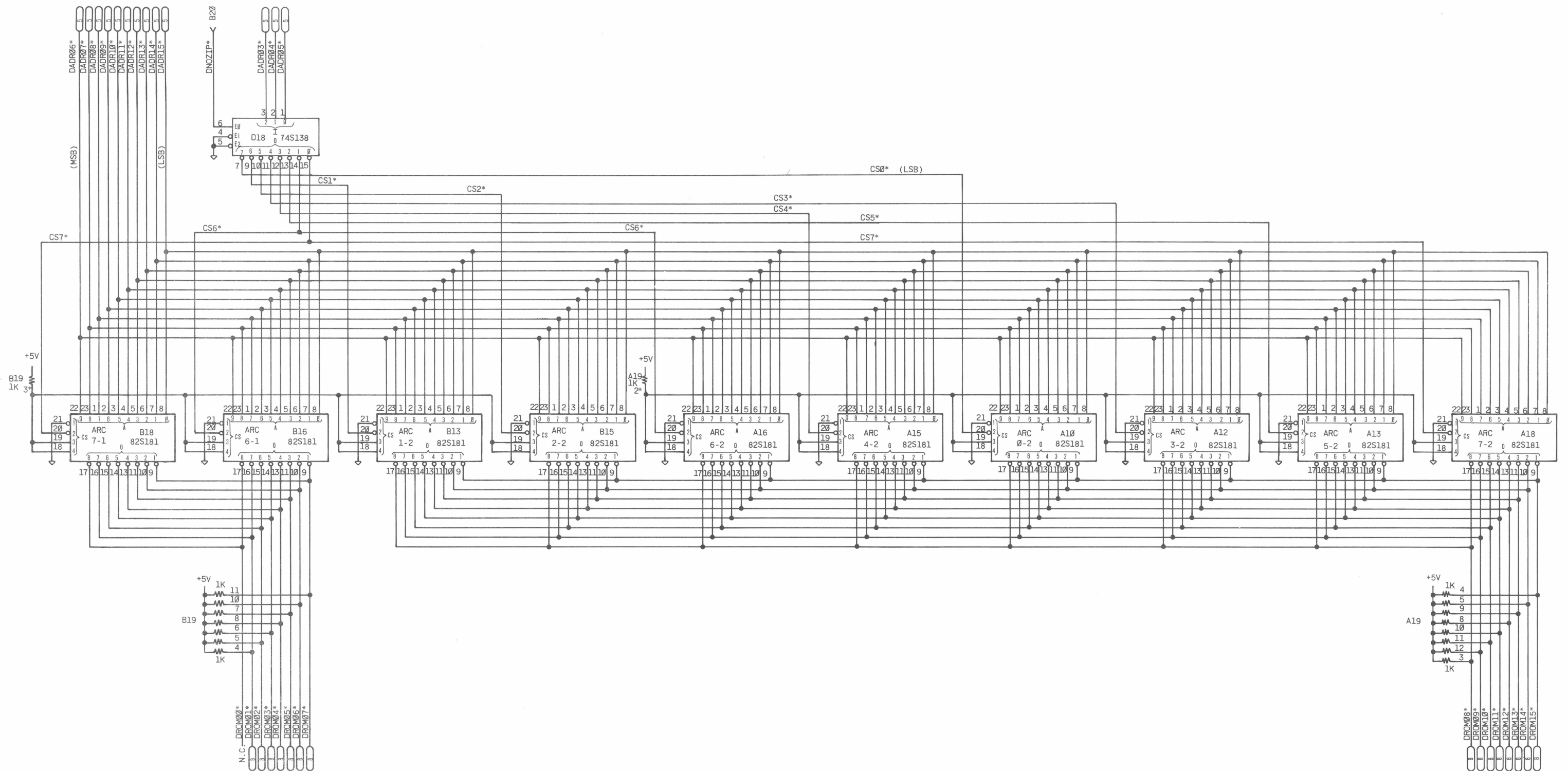
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GENERAL ELECTRIC COMPANY AND FLOATING POINT SYSTEMS, INC.

ENG.
DRN. *Jammy Young, 1-25-78*
CHK.
PROD. RELEASE
DEC. TOL.

TITLE
SCHEMATIC, ECB,
276-0,
IMAGE RECONSTRUCTION
PROCESSOR 2
DWG. NO. 512-3276-000
PAGE 5 OF 8



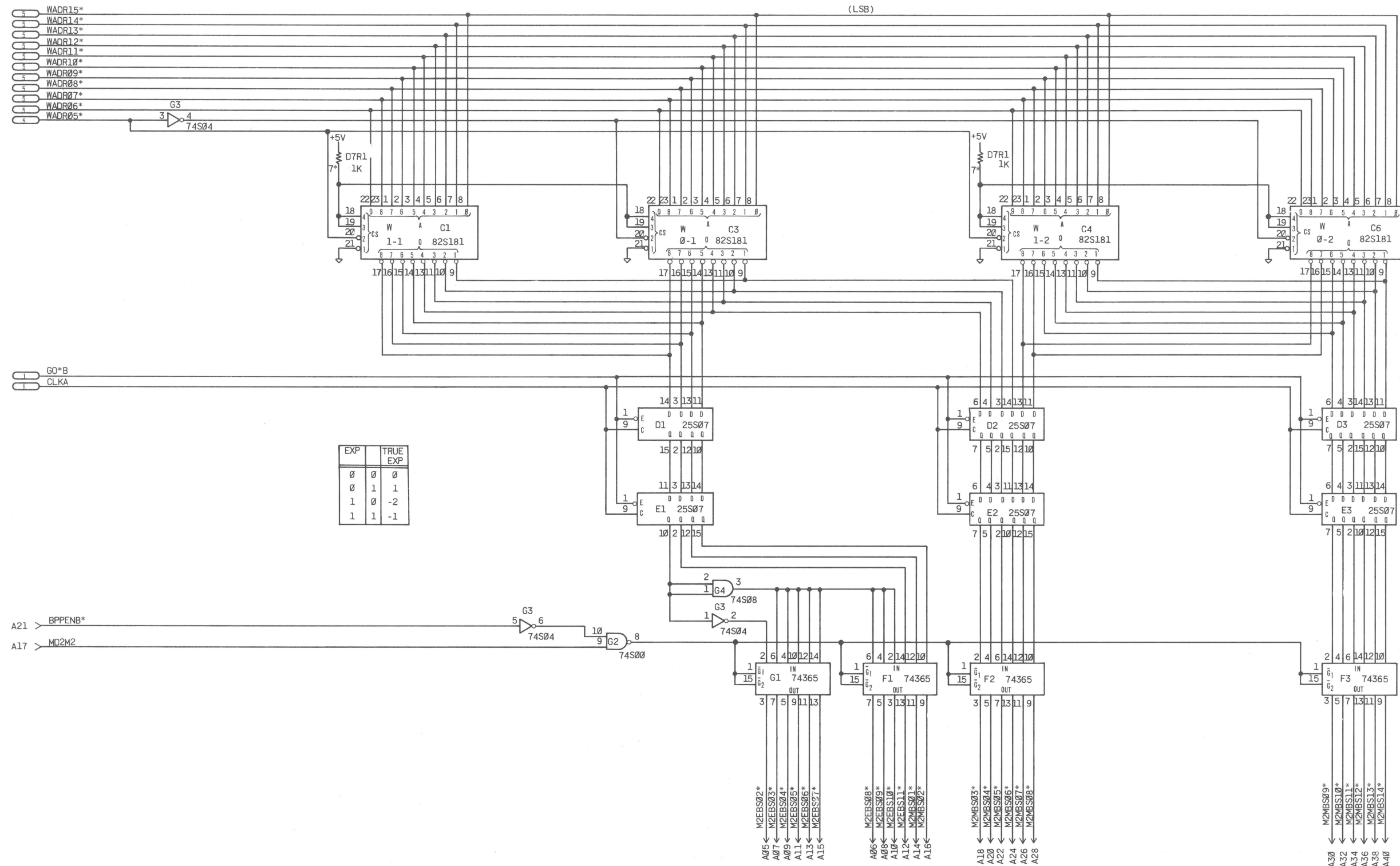
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 GENERAL ELECTRIC COMPANY AND FLOATING POINT SYSTEMS, INC.

ENG.	TITLE	 FLOATING POINT SYSTEMS, INC. PO BOX 23489 PORTLAND, OR 97223
DRN: 1-78 S. François	SCHEMATIC, ECB, 276-0, IMAGE RECONSTRUCTION PROCESSOR 2	
CHK.		
PROD. RELEASE		
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ENG.
 DRN.
 CHK.
 PROD. RELEASE
 DEC. 10L

TITLE
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 IMAGE RECONSTRUCTION
 PROCESSOR 2

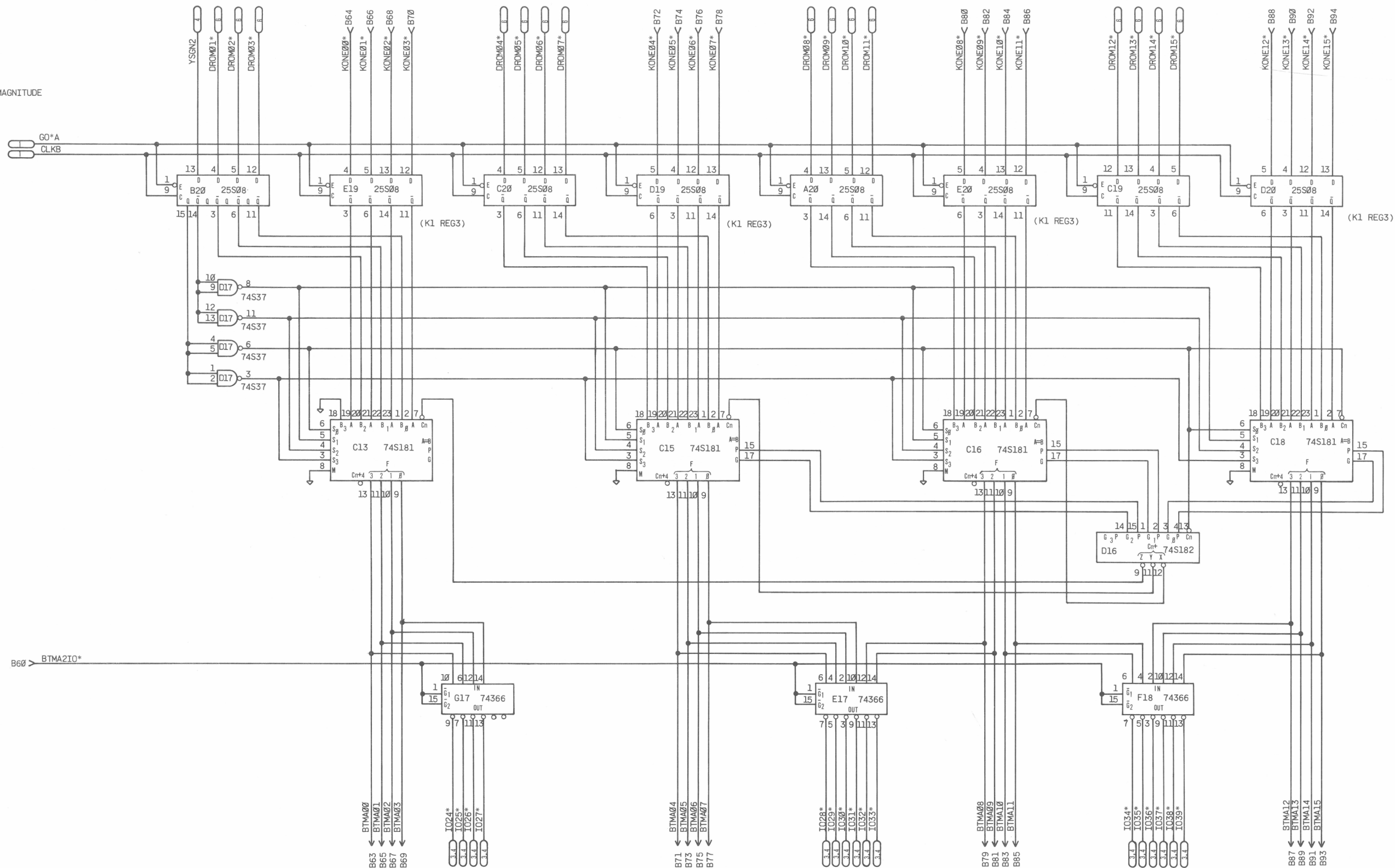
DWG. NO. 512-3276-000 PAGE 7 OF 8



FLOATING POINT
 SYSTEMS, INC.
 PO BOX 23489 PORTLAND, OR 97223

REV. B

15 BIT MAGNITUDE



BTMA ADDER

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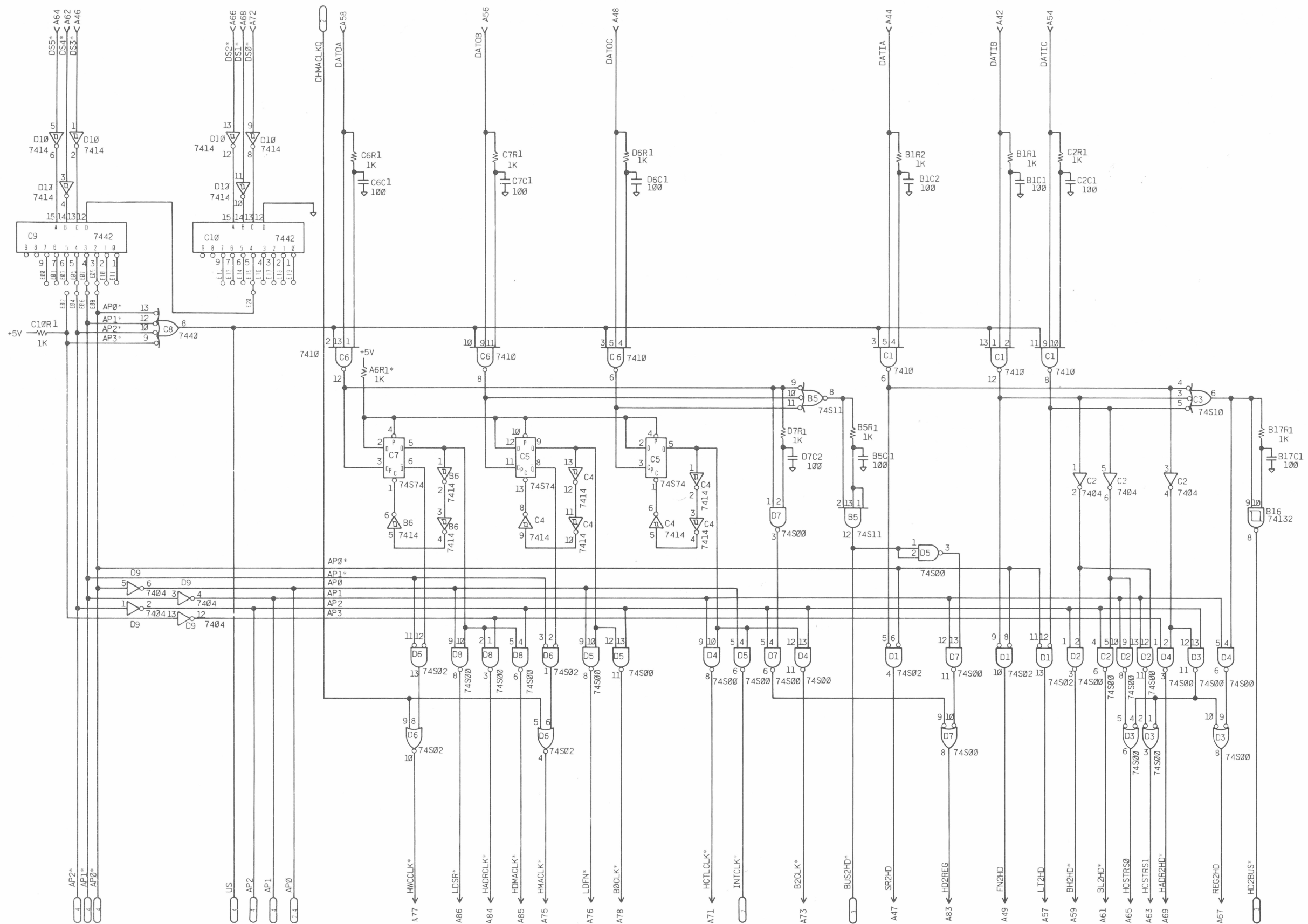
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ENG.
DRN. *James Young, 1-26-77*
CHK.
PROD. RELEASE
DEC. TOL.

TITLE
SCHEMATIC, ECB,
276-0,
IMAGE RECONSTRUCTION
PROCESSOR 2

DWG. NO. 512-3276-000
PAGE 8 OF 8
REV. B

FPS
FLOATING POINT
SYSTEMS, INC.
PO BOX 2289 PORTLAND OR 97223

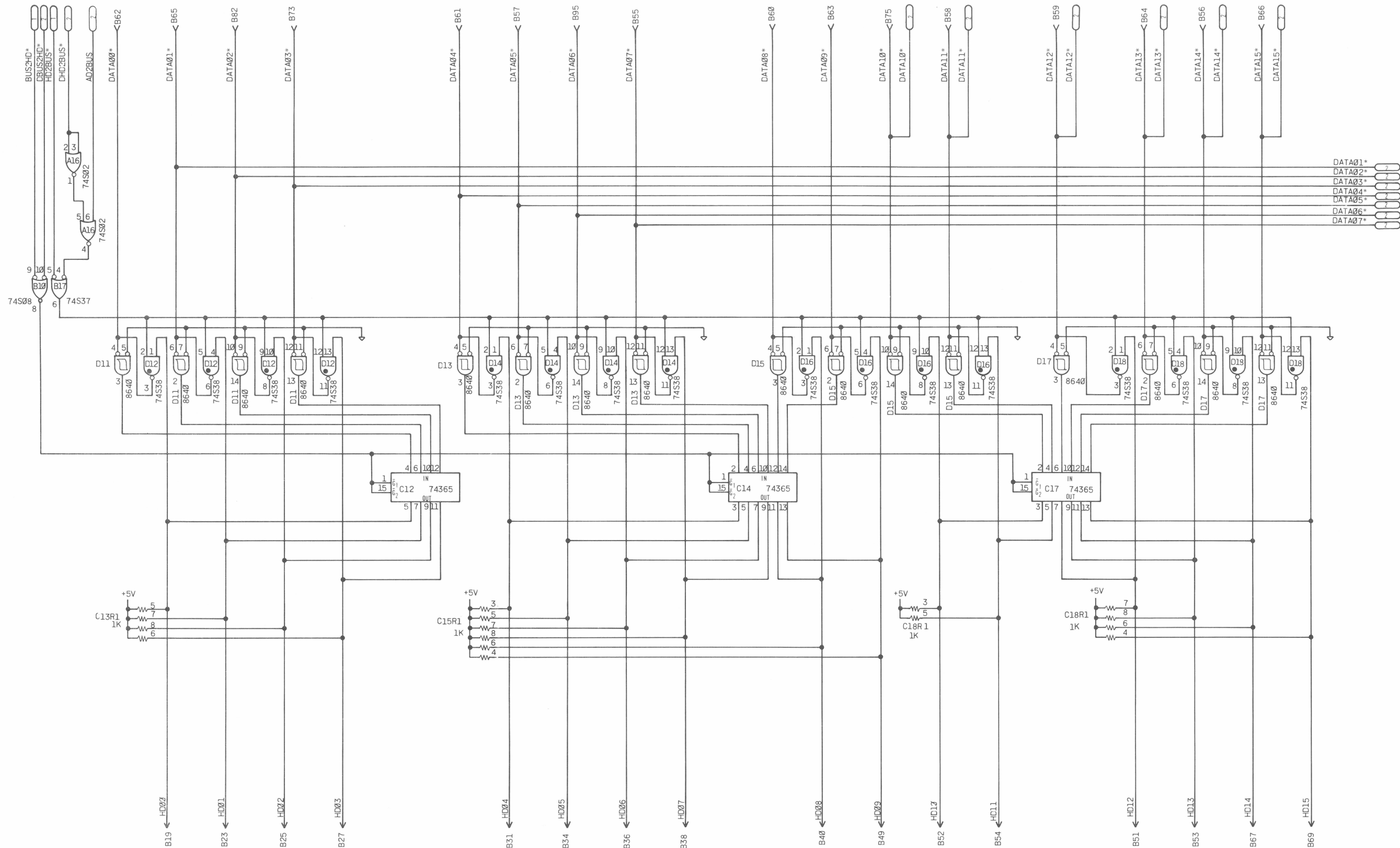


REVISIONS					
REV	AUTH	DESCRIPTION	ZONE	APVD/DATE	CHK/DATE
Q1	ECO 79165	LEVEL 2 RELEASE		5/10/79	20 5/13/79
A	ECO 79634	LEVEL 3 RELEASE		5/14/79	11-9-79
B	ECO 80050	CHANGE POWER DOWN DETECTOR		11-19-80	Loren 11-18-80
C	ECO 80400	DBUS2HD* MOD		5-6-81	S. Schmitt

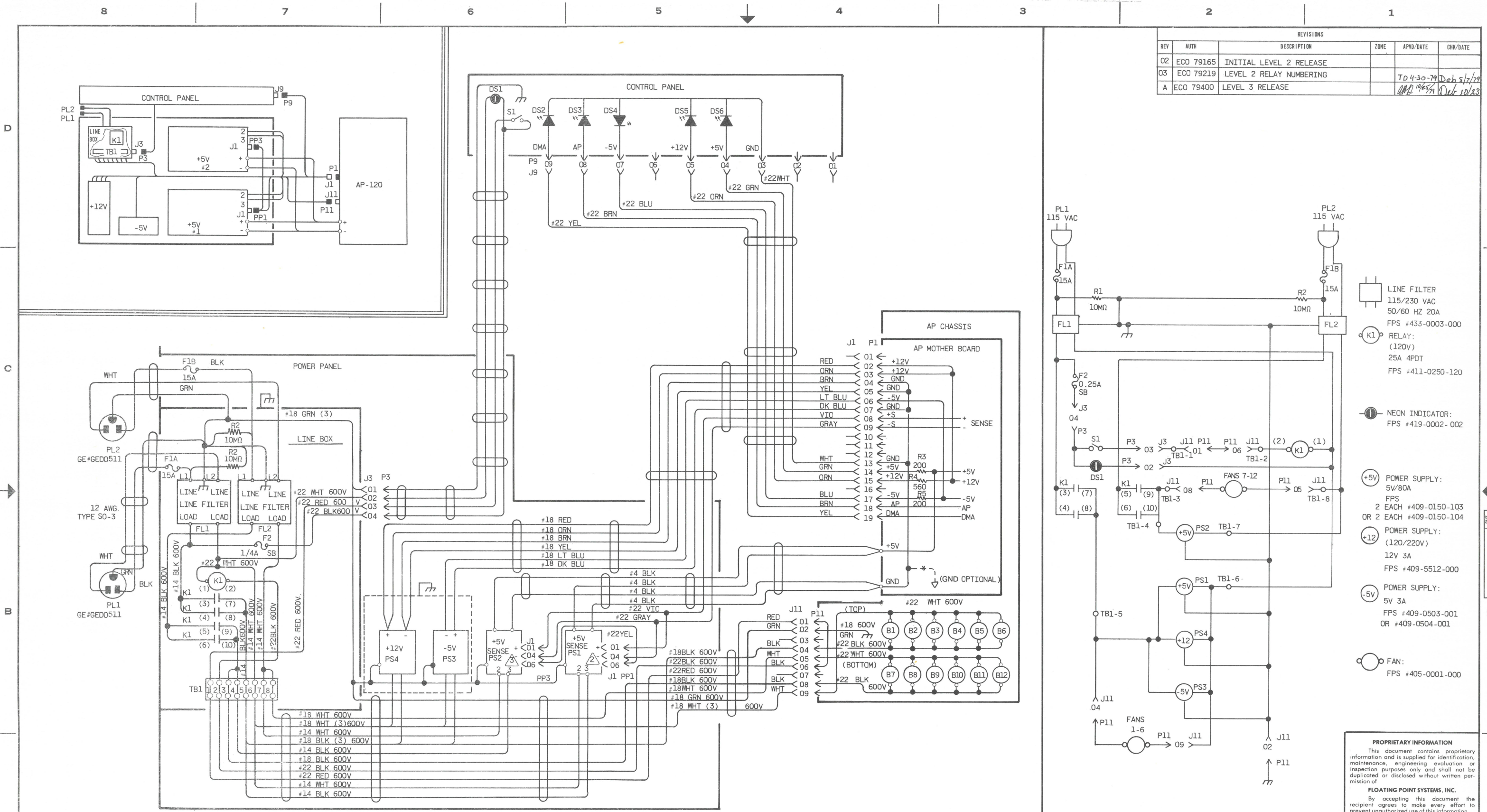
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EXG/ <i>W. Matheson</i> 11-14-79 DWN/ <i>W. Matheson</i> 5/10/79 CHK/ <i>G. Gongolinski</i> 5/22/80 PROC. RELEASE <i>W. L. Bunch</i> 11-15-79 DEC. 101	TITLE SCHEMATIC, ECB, 280B, NOVA ECLIPSE I/O ADAPTER DWG. NO. 512-2280-001	FFS FLOATING POINT SYSTEMS, INC. P.O. BOX 23480 PORTLAND, OR 97223 REV. C
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REVISIONS					
REV	AUTH	DESCRIPTION	ZONE	APVD/DATE	CHK/DATE
02	ECO 79165	INITIAL LEVEL 2 RELEASE			
03	ECO 79219	LEVEL 2 RELAY NUMBERING		TO 4-30-79	Deh 5/7/79
A	ECO 79400	LEVEL 3 RELEASE		10/25/79	Deh 10/23



- 3 POWER SUPPLY 2, VOLTAGE SOURCE, 5 VOLT, 80 AMP.
- 2 POWER SUPPLY 1, CURRENT SOURCE, 5 VOLT, 80 AMP.
1. ALL WIRE WITH 115/230 VOLT AC MUST BE LISTED, 600VOLT, UL STYLE 1015, 105°C. ALL OTHER MUST BE UL LISTED 300V, 80°C MIN UL STYLE 1007.
- NOTE: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		FRACTIONS ± ANGLES ± 3 PLACE DEC. ± 2 PLACE DEC. ±		MATERIAL:	
NEXT ASSY		USED ON		APPLICATION	
ENGR. <i>[Signature]</i>		DATE 10-26-79		FLOATING POINT SYSTEMS, INC.	
DRN BY K.L. KING		DATE 7-26-78		PUB 23489 Portland OR 97223	
CHK BY <i>[Signature]</i>		DATE 7-28-78		DRAWING TITLE	
TIME REL. <i>[Signature]</i>		DATE 10-25-79		SCHEMATIC, POWER, 120 VAC, 300 AMP, 60 HZ, AP-120B	
SIZE	CODE IDENT. NO.	DRAWING NO.	REV.		
D	56504	512-7120-400	A		

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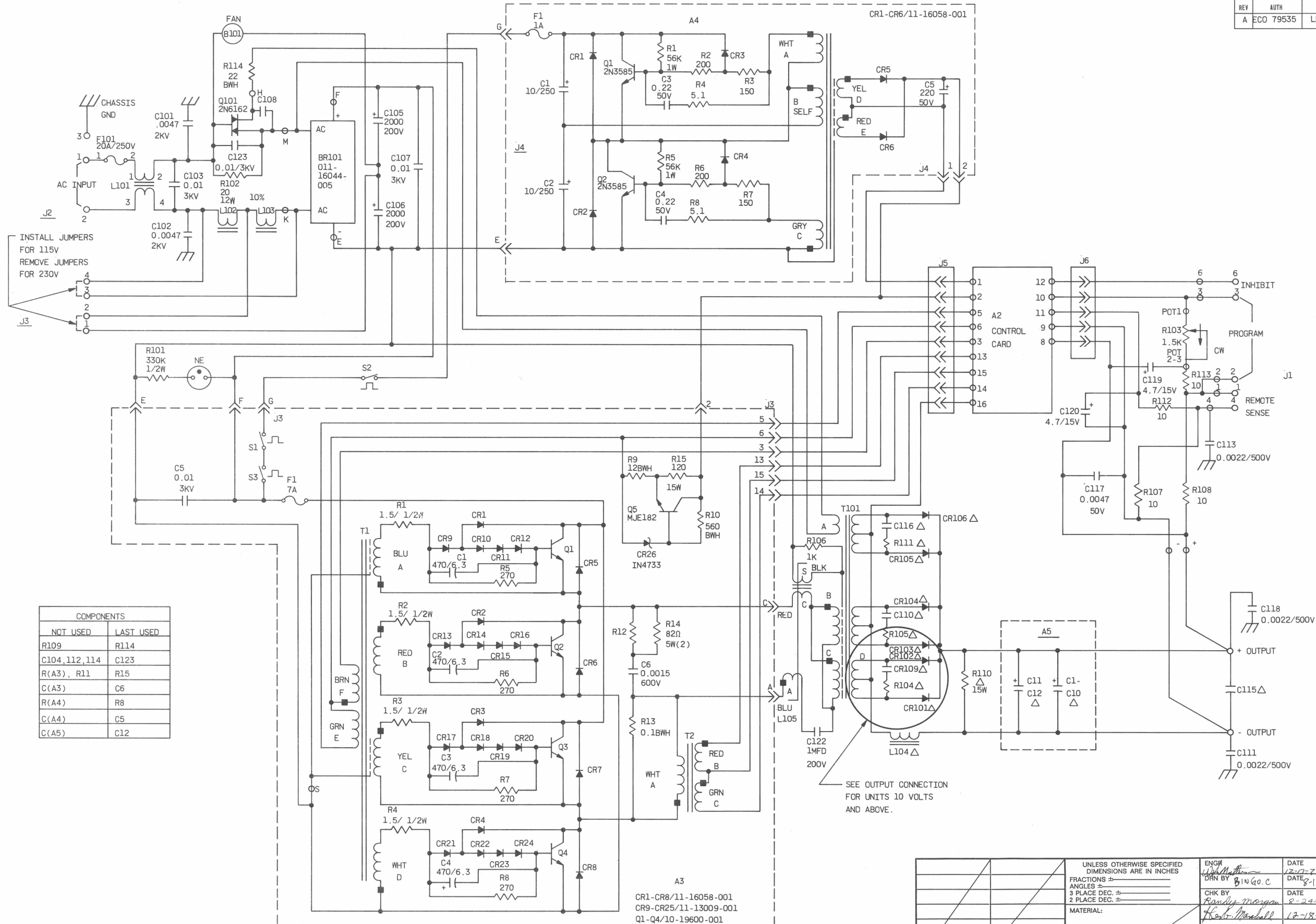
REVISIONS					
REV	AUTH	DESCRIPTION	ZONE	APVD/DATE	CHK/DATE
A	ECO 79535	LEVEL 3 RELEASE		JPC/12-17-79	Paul Witter 11-15-79

D

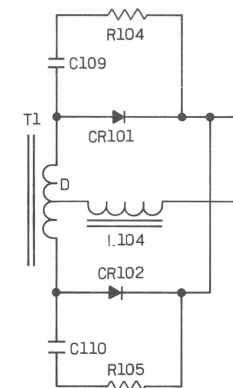
C

B

A



OUTPUT CONNECTION FOR UNITS
10 VOLTS AND ABOVE



- NOTE: UNLESS OTHERWISE SPECIFIED
1. ALL RESISTORS ARE IN OHMS 1/4 WATT ±5%
 2. ALL CAPACITORS ARE IN MICROFARADS.
 3. Δ INDICATE COMPONENT VALUE CHANGE (SEE TABLE FOR VALUES).

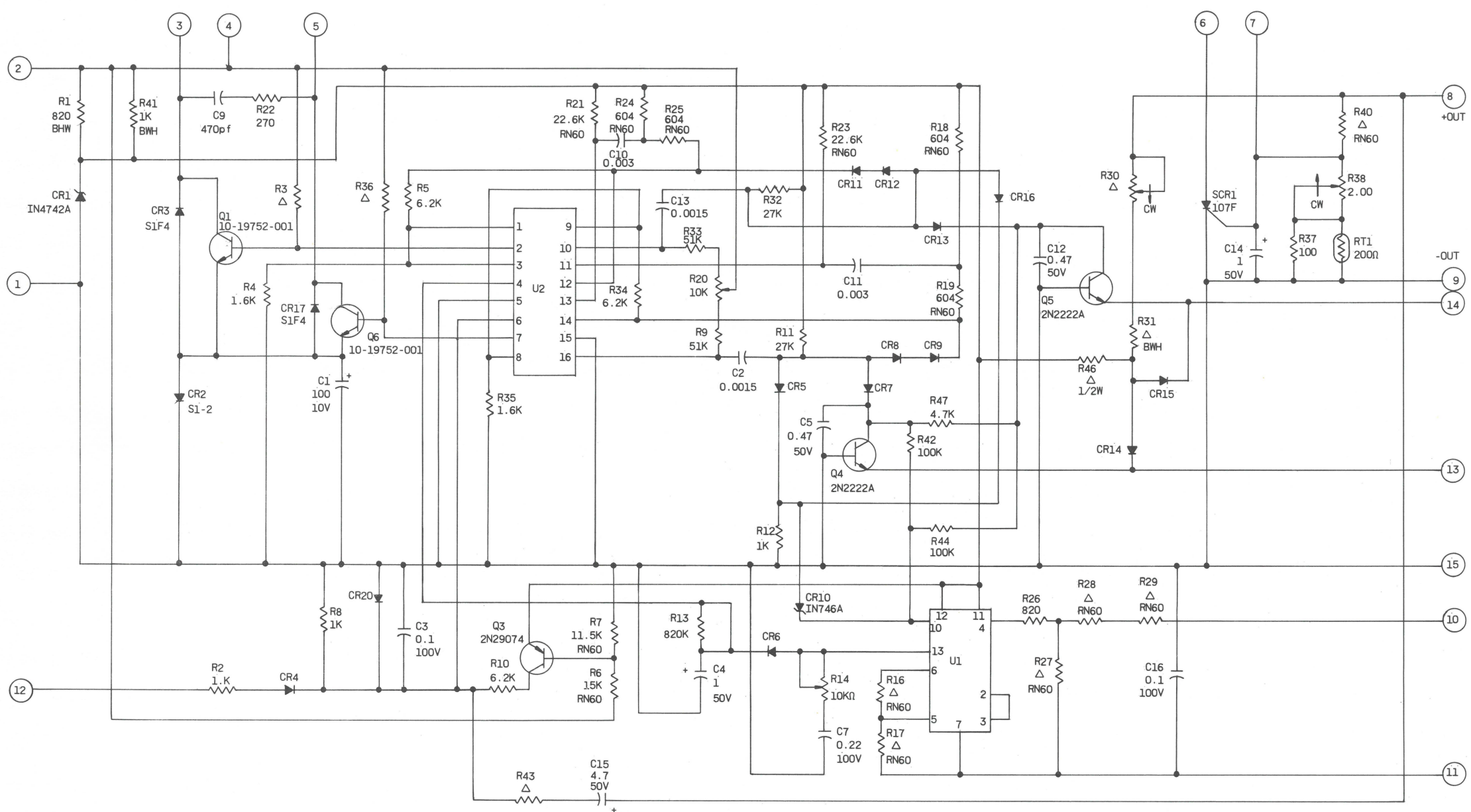
COMPONENTS	
NOT USED	LAST USED
R109	R114
C104, 112, 114	C123
R(A3), R11	R15
C(A3)	C6
R(A4)	R8
C(A4)	C5
C(A5)	C12

CR1-CR8/11-16058-001
CR9-CR25/11-13009-001
Q1-Q4/10-19600-001

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS ± ANGLES ± 3 PLACE DEC. ± 2 PLACE DEC. ± MATERIAL:		ENGR 11/11/79 DRN BY BIN 40. C	DATE 12-7-79 DATE 8-11-78	FLOATING POINT SYSTEMS, INC. PO Box 23489 Portland OR 97223
		CHK BY Randy Morgan John Marshall	DATE 8-24-78 12-18-79	
NEXT ASSY USED ON APPLICATION		DRAWING TITLE POWER SUPPLY SCHEMATIC 115/230V INPUT POWTEC INC. MODEL 9NXX-17A D.N. 21471-001		SIZE D
		CODE IDENT. NO. 56504		DRAWING NO. 512-7240-000
		SCALE		SHEET 1 OF 3

MODEL NO	CR101-CR104	CR105-CR106	A5 C1-C10(10)	A5 C11-C12(2)	R104-R105(2)	R111	C109-C110(2)	C116	C115	R110
9N2-200-17A	SD51(4)	SD51(2)	1000/12V	25000/10V	4.7Ω,1/2W	4.7Ω,1/2W	0.022/100V	0.022/100V	1000/10V	5Ω
9N5-120-17A	40956(4)		1000/12V	25000/10V	5.6Ω,BWH		0.1/100V		1000/10V	5Ω
9N5-150-17A	SD51(4)		1000/12V	25000/10V	4.7Ω,1/2W		0.022/100V		1000/10V	5Ω
9N12-50-17A	40957(2)		470/25V	10000/25V	22Ω, BWH		0.022/100V		470/25V	30Ω
9N15-50-17A	40957(2)		470/25V	10000/25V	22Ω, BWH		0.022/100V		470/25V	30Ω
9N17-42-17A	40957(2)		470/25V	10000/25V	22Ω, BWH		0.022/100V		470/25V	50Ω
9N20-40-17A	40957(2)		470/25V	10000/25V	22Ω, BWH		0.022/100V		470/25V	50Ω
9N24-33-17A	40957(2)		390/40V	7300/35V	22Ω, BWH		0.022/100V		390/40V	75Ω
9N28-28-17A	40957(2)		390/40V	7300/35V	22Ω, BWH		0.022/100V		390/40V	100Ω

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS ± ANGLES ± 3 PLACE DEC. ± 2 PLACE DEC. ± MATERIAL:		ENGR	DATE	Floating Point Systems, Inc. POBox 23489 Portland OR 97223 DRAWING TITLE POWER SUPPLY SCHEMATIC 115/230V INPUT POWERTEC INC. MODEL 9NXX-17A D.N. 21471-001			
		DRN BY	DATE				
		CHK BY	DATE				
NEXT ASSY	USED ON			SIZE C	CODE IDENT. NO. 56504	DRAWING NO. 512-7240-000	REV A
APPLICATION				SCALE	SHEET 2 OF 3		



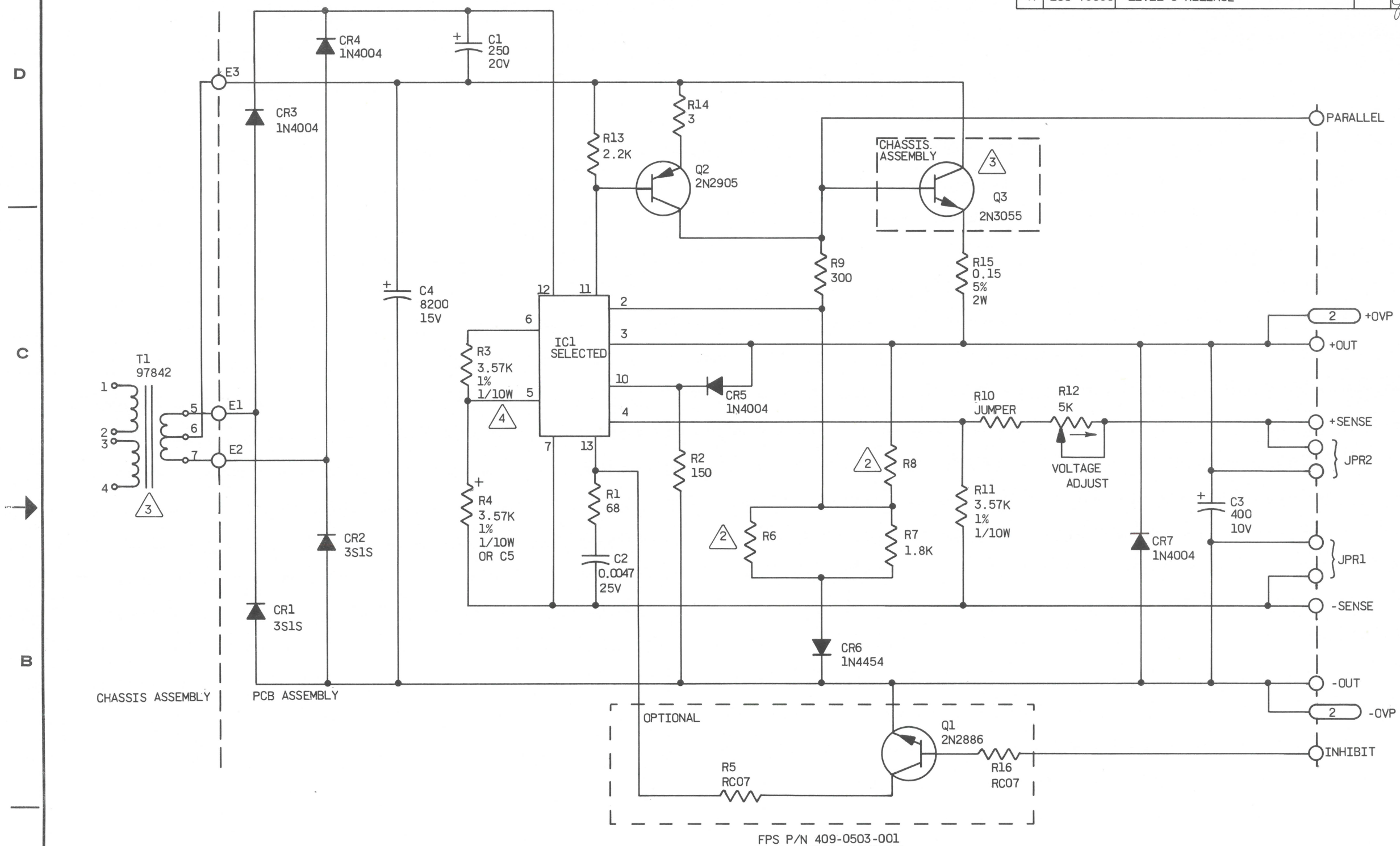
NOTE: UNLESS OTHERWISE SPECIFIED.
1. ALL RESISTORS ARE IN OHMS, 1/4W, 5%.
2. ALL CAPACITORS ARE IN MICRO FARADS.
3. ALL DIODES ARE 1N4448.
4. Δ SEE TABLE FOR VALUES.

MODEL	R3 R36	R16	R17	R27	R28 R29	R30	R31	R40	R43	R46
9N2-200-01	1K BWH	3.01K	909Ω	909Ω	JUM- PER	100Ω	22Ω	787Ω	820Ω	—
9N2-200-03 04	3.9K 1W	3.01K	909Ω	909Ω	JUM- PER	↑	22Ω	787Ω	↑	—
9N5-120-01	1K BWH	1.5K	2K	1.65K	33.2Ω	—	68Ω	1.74K	—	—
9N5-120-03 04	3.9K 1W	↑	↑	1.65K	33.2Ω	—	68Ω	1.74K	—	—
9N5-150-01	1K BWH	—	—	1.65K	33.2Ω	↓	68Ω	1.74K	↓	—
9N5-150-03 04	3.9K 1W	—	—	1.65K	33.2Ω	100Ω	68Ω	1.74K	820Ω	—
9N12-50-01	1K BWH	—	—	732Ω	536Ω	200Ω	150Ω	3.92K	3K	—
9N12-50-03 04	3.9K 1W	—	—	732Ω	536Ω	↑	150Ω	3.92K	3K	—
9N15-50-01	1K BWH	—	—	698Ω	768Ω	—	180Ω	4.87K	3.9K	—
9N15-50-03 04	3.9K 1W	—	—	698Ω	768Ω	—	180Ω	4.87K	3.9K	—
9N17-42-01	1K BWH	—	—	432Ω	487Ω	—	220Ω	5.90K	4.7K	—
9N17-42-03 04	3.9K 1W	—	—	432Ω	487Ω	—	220Ω	5.90K	4.7K	—
9N20-40-01	1K BWH	—	—	475Ω	750Ω	—	270Ω	6.34K	6.2K	—
9N20-40-03 04	3.9K 1W	—	—	475Ω	750Ω	—	270Ω	6.34K	6.2K	—
9N24-33-01	1K BWH	—	—	475Ω	825Ω	—	390Ω	7.50K	6.2K	—
9N24-33-03 04	3.9K 1W	—	—	475Ω	825Ω	—	390Ω	7.50K	6.2K	—
9N28-28-01	1K BWH	↓	↓	422Ω	1.10K	↓	470Ω	8.87K	6.2K	—
9N28-28-03 04	3.9K 1W	1.5K	2K	422Ω	1.10K	200Ω	470Ω	8.87K	6.2K	—

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS ± ANGLES ± 3 PLACE DEC. ± 2 PLACE DEC. ±		ENGR DATE DRN BY DATE CHK BY DATE PRD RELEASE DATE	DATE DATE DATE DATE
MATERIAL:		DRAWING TITLE CARD CONTROL SCHEMATIC A2 115/230V INPUT POWTEC INC. MODEL 9NXX-17A D.N. 21481-001	
SIZE D	CODE IDENT. NO. 56504	DRAWING NO. 512-7240-000	REV A
SCALE NONE		SHEET 3 OF 3	

NEXT ASSY	USED ON
APPLICATION	

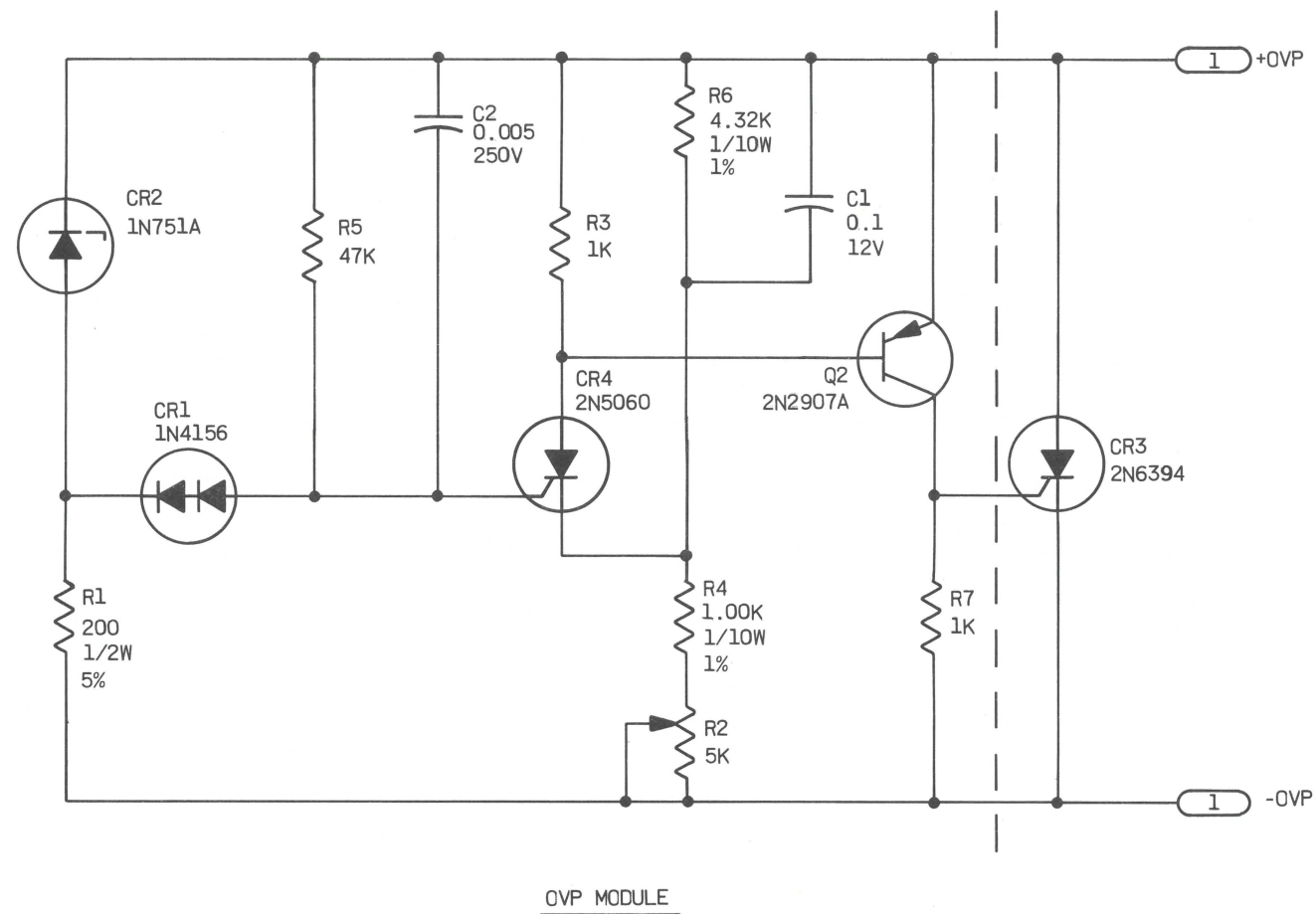
REVISIONS					
REV	AUTH	DESCRIPTION	ZONE	APVD/DATE	CHK/DATE
A	ECO 79535	LEVEL 3 RELEASE		JPC/12-17-79	Frank Witter 11-15-79



- 4 SELECTED PER ACDC NUMBER 66-780-000.
- 3 T1 AND Q3 ARE MOUNTED ON CHASSIS.
- 2 THIS RESISTOR MAY VARY OR BE OMITTED.
1. RESISTOR VALUES ARE OHMS $\pm 5\%$, 1/4W
CAPACITOR VALUES ARE MICRO FARADS.
- NOTES: UNLESS OTHERWISE SPECIFIED

NEXT ASSY USED ON APPLICATION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS $\pm$ _____ ANGLES $\pm$ _____ 3 PLACE DEC. $\pm$ _____ 2 PLACE DEC. $\pm$ _____ MATERIAL: _____		ENGR <i>W. J. Wilgus</i> DRN BY <i>d. white</i> CHK BY <i>J.P. Wilgus</i> PROD RELEASE <i>Frank Marshall</i>		DATE 12-17-79 DATE 10/5/78 DATE 10/12/78 DATE 12-18-79		FLOATING POINT SYSTEMS, INC. PO Box 23489 Portland OR 97223	
		DRAWING TITLE ACDC POWER SUPPLY 5 VOLT, 4 AMP		SIZE C		CODE IDENT. NO. 56504		DRAWING NO. 512-7240-002	
						SCALE NONE		SHEET 1 OF 2	

D
C
B
A



NOTES: UNLESS OTHERWISE SPECIFIED
1. RESISTOR VALUES ARE OHMS $\pm 5\%$, 1/4W.
CAPACITOR VALUES ARE MICRO FARADS.

D
C
B
A

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS $\pm$ _____ ANGLES $\pm$ _____ 3 PLACE DEC. $\pm$ _____ 2 PLACE DEC. $\pm$ _____		ENGR		DATE	
		DRN BY		DATE	
MATERIAL:		CHK BY		DATE	
		PROD RELEASE		DATE	
NEXT ASSY		USED ON		SCALE NONE	
APPLICATION				SHEET 2 OF 2	

FLOATING POINT SYSTEMS, INC. POBox 23489 Portland OR 97223			
DRAWING TITLE ACDC POWER SUPPLY 5 VOLT, 4 AMP			
SIZE C	CODE IDENT. NO. 56504	DRAWING NO. 512-7240-002	REV A



FLOATING POINT
SYSTEMS, INC.

CALL TOLL FREE 800-547-1445 • P.O. BOX 23489, Portland, OR 97223 • (503) 641-3151, TLX: 360470 FLOATPOIN BEAV

PROPRIETARY
INFORMATION